

C

CBluZme

1898/99-

1901/02

me
)
BARNELL UNIVERSITY
MEDICAL COLLEGE

(8)
UNIVERSITY OF ILLINOIS LIBRARY

Announcement

1898-1899

UNIVERSITY OF ILLINOIS
APR 26 1917
ADMINISTRATIVE LIBRARY

NEW YORK CITY
414 East Twenty-sixth Street

Published by the University

1898

PRESS OF
THE PUBLISHERS' PRINTING COMPANY
82 84 LAFAYETTE PLACE
NEW YORK

CORNELL UNIVERSITY
MEDICAL COLLEGE

CURRICULUM

SESSION 1898-99

FIRST YEAR—SESSION 1898-99

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9		Physiology Lecture After Jan. 1, 1899		Physiology Lecture		
10	A. Anatomy B. Chemistry C. Physiology	A. Physiology B. Anatomy C. Chemistry	A. Chemistry B. Physiology C. Anatomy	A. Anatomy B. Chemistry C. Physiology	A. Physiology B. Anatomy C. Chemistry	A. Histology C. Anatomy
11	Physics Lecture	A. Anatomy Demonstration B. Histology	Physics Lecture	B. Anatomy Demonstration C. Histology	Anatomy Lecture	A. Chemistry B. Physiology C. Anatomy Demonstration
12						
1	Histological Laboratory Materia Medica Laboratory	Bacteriological Laboratory	Histological Laboratory Materia Medica Laboratory	Bacteriological Laboratory	Dissection	Dissection
2	Histological Laboratory Materia Medica Laboratory	Bacteriological Laboratory	Histological Laboratory Materia Medica Laboratory	Bacteriological Laboratory	Dissection	Dissection
3	Dissection	Chemical Laboratory	Dissection	Chemical Laboratory	Chemical Laboratory	Dissection
4	Dissection	Chemical Laboratory	Dissection	Chemical Laboratory	Chemical Laboratory	Dissection
5	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection

NOTE—A, B, C. = Recitations.

NOTE—From 1 to 5 o'clock students are expected to dissect, when not engaged in Laboratory or other work.

SECOND YEAR—SESSION 1898-99

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9	Physiology Lecture until Dec. 25, 1898	A. Physiology B. Anatomy C. Chemistry	Physiology Lecture	A. Anatomy B. Chemistry C. Physiology		A. Chemistry
10	A. Materia Medica B. Medicine C. Surgery	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture.	B. Physiology C. Anatomy	Anatomy Demonstration
11		A. Surgery B. Materia Medica C. Medicine	A. Medicine B. Surgery C. Materia Medica	A. Materia Medica B. Obstetrics C. Surgery	A. Surgery B. Materia Medica C. Obstetrics	A. Obstetrics B. Surgery C. Materia Medica
12						
1	Pathological Laboratory Physical Diagnosis	A. Anatomy Demonstration C. Pathology	Pathological Laboratory	A. Pathology B. Anatomy Demonstration	Pathological Laboratory Physical Diagnosis	B. Pathology C. Anatomy Demonstration
2	Pathological Laboratory Physical Diagnosis	*	Pathological Laboratory	*	Pathological Laboratory Physical Diagnosis	*
3	Chemistry Lecture	*	*	*	Therapeutics Lecture	*
4	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection
5	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection

NOTE—A. B. C. = Recitations.

* NOTE—From 1 to 5 o'clock students are expected to dissect, when not engaged in Laboratory or other work.

THIRD YEAR—SESSION 1898-99

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9	A. Medicine B. Surgery C. Therapeutics	A. Therapeutics B. Medicine C. Surgery	A. Surgery B. Therapeutics C. Medicine	A. Medicine B. Surgery C. Gynaecology	A. Gynaecology B. Medicine C. Surgery	A. Surgery B. Gynaecology C. Medicine
10	*	*	*	*	*	*
11	*	*	*	*	*	*
12						
1	*	*	*	*	*	*
2	Therapeutics Lecture Prof. Loomis	Genito-Urinary Clinic Bellevue Hospital Prof. Alexander	Surgery Clinic Prof. Stimson Prof. Gwyer	Diseases of Children Clinic Prof. Winters	Surgery Lecture Prof. Stimson	2:30 P. M. Surgery Clinic N. Y. Hospital on even dates Prof. Stimson
3	Gynaecology Clinic Bellevue Hospital Prof. Polk	Medicine Clinic Bellevue Hospital Prof. Loomis	Surgery Clinic Bellevue Hospital Prof. Dennis	Surgery Clinic Bellevue Hospital Prof. Stimson Prof. Woolsey	Medicine Clinic Bellevue Hospital Prof. Thompson	
4	Ophthalmology Clinic Prof. Bull	Toxicology Lecture Prof. Witthaus	†† Otology Clinic Prof. Bacon † Laryngology Clinic Prof. Knight	† Medicine Lecture Prof. Thompson † Nervous Diseases Lecture Prof. Dana	Nervous Diseases Clinic Bellevue Hospital Prof. Dana	
5		Obstetrics Lecture Prof. Edgar	Pathology Lecture Prof. ———	Obstetrics Lecture Prof. Edgar		

* Section work 10 A. M. to 12 M. and 1 to 2 throughout the term. † Prof. Thompson first ten weeks, Prof. Dana remainder of term. ‡ Prof. Bacon will give a clinic during the first half of the term, Prof. Knight during the second half.

1898/99-1901/02

TABLE OF CONTENTS.

	PAGE
Calendar,	3
Board of Trustees,	4
Special Notice,	5
Staff of Instruction,	7
Admission and Classification of Students,	12
Graduation and License to Practise,	20
Scholarships,	22
Course of Instruction,	24
Curriculum in Detail of the Four-Year Course,	38
General Information and Equipment,	42
Hospital Appointments,	44
Fees and Expenses,	45
Text-books,	47

CALENDAR OF THE CORNELL UNIVERSITY MEDICAL COLLEGE.

1898.

October 4, Tuesday—College opens.

November 8, Tuesday—Election Day. Legal holiday.

November 24, Thursday, to 9 A.M. November 28, Monday—
Thanksgiving recess.

December 23, Friday, to 9 A.M. January 3, 1899, Tuesday—
Christmas recess.

1899.

February 12, Monday—Lincoln's Birthday. Legal holiday.

February 22, Wednesday—Washington's Birthday. Legal
holiday.

April 29, Saturday—All College exercises end, excepting
review quizzes for the fourth-year class, which are
continued for a month.

June 7, Wednesday—Commencement.

TRUSTEES OF CORNELL UNIVERSITY.

ALONZO B. CORNELL,	} <i>Ex Officio</i>	New York.
The PRESIDENT of the University,		Ithaca.
His Excellency the GOVERNOR of New York,		Albany.
His Honor the LIEUTENANT-GOVERNOR,		Albany.
The SPEAKER of the Assembly,		Albany.
The SUPERINTENDENT of Public Instruction,		Albany.
The COMMISSIONER of Agriculture,		Albany.
The PRESIDENT of the State Agricultural Soc.		Brooklyn.
The LIBRARIAN of the Cornell Library,		Ithaca.
*ALFRED C. BARNES, (B.) ¹		Brooklyn.
*FRANKLIN C. CORNELL, (B.)		Ithaca.
*CHARLES S. FRANCIS, B.S., (A.) ²		Troy.
*JARED TREMAN NEWMAN, Ph.B., LL.B., (A.)		Ithaca.
*WILLIAM H. SAGE, A.B., (B.)		Ithaca.
* ———		—————
ROSWELL P. FLOWER, <i>Chairman</i> , (B.)		Watertown.
C. SIDNEY SHEPARD, A.B., LL.B., (B.)		New Haven.
HIRAM W. SIBLEY, Ph.D., LL.B., (B.)		Rochester.
M. CAREY THOMAS, A.B., Ph.D., (A.)		Bryn Mawr, Pa.
JOHN DEWITT WARNER, Ph.B., LL.B., (A.)		New York.
STEWART L. WOODFORD, LL.D., (B.)		New York.
ROBERT B. ADAM, (B.)		Buffalo.
WILLIAM BALLARD HOYT, Ph.B., (A.)		Buffalo.
HENRY RUBENS ICKELHEIMER, B.L., (B.)		New York.
WALTER CRAIG KERR, B.M.E., (A.)		New York.
HENRY B. LORD, (B.)		Ithaca.
ANDREW D. WHITE, LL.D., L.H.D., (B.)		Ithaca.
ANDREW CARNEGIE, (B.)		Pittsburg, Pa.
JOSEPH C. HENDRIX, (B.)		Brooklyn.
DEFOREST VAN VLEET, B.S., (A.)		Ithaca.
CHARLES GRAY WAGNER, B.S., M.D., (A.)		Binghamton.
HORACE WHITE, M.A., (B.)		New York.
GEORGE R. WILLIAMS, LL.B., (B.)		Ithaca.
SAMUEL D. HALLIDAY, A.B., (B.)		Ithaca.
* ———		—————
ROBERT H. TREMAN, B.M.E., (B.)		Ithaca.
GEORGE B. TURNER, A.B., (A.)		Auburn.
MYNDERSE VAN CLEEF, B.S., (B.)		Ithaca.
FRANK SHERMAN WASHBURN, B.C.E., (A.)		New York.

* Term of office (5 years) expires in 1898, the next group of six in 1899, etc., etc.

¹ B., elected by Board. ² A., elected by Alumni.

SPECIAL NOTICE.

THE creation of a Medical Department of Cornell University, which had long been contemplated by the Trustees, was determined by the gift to the University for that purpose of funds ample for the construction of the necessary plant and the support of the department. In addition, the University was able to secure a faculty composed of men who have been associated for many years in carrying on the Medical Department of another university, and join with them a number of other physicans and surgeons connected with important hospitals; so that the college begins with an equipment of experience and clinical facilities that is unsurpassed. Upon this basis of men and material, the University confidently expects to create a department that will take equal rank with any. The buildings that have been obtained for temporary use during the construction of our own have long been in use for the same purpose; they are conveniently situated and offer ample facilities (see page 42). The number of students who have applied for admission to the different years of the course is sufficient to insure a full set of classes at the outset, so that not only will the organization be complete, but the work will be carried on in all its details, and students who enter the advanced classes will have all the opportunities and facilites of a long organized and active school. Advantage has been taken of the opportunity to make some important and long desired changes in the method of instruction, notably in the increase of bedside teaching, which are given in detail elsewhere (see page 33).

The full four-year course of the Cornell University Medical College is given in the city of New York; and the course of the first two years is also given in Ithaca. Men students may take half the course in Ithaca and the other half in New York, or the entire course in New York; women students must take the first half of the course in Ithaca (where a home is provided in the Sage College for Women) and the last half in New York.

STAFF OF INSTRUCTION.

THE FACULTY.

- JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D.,
President. Ithaca, New York.
- WILLIAM M. POLK, M.D., LL.D.,
Dean and Professor of Gynæcology and Obstetrics, Gynæcologist to Bellevue Hospital and Obstetrician to Emergency Lying-in Hospital.
- LEWIS A. STIMSON, M.D.,
Professor of Surgery, Surgeon to Bellevue and New York Hospitals.
- RUDOLPH A. WITTHAUS, M.D.,
Professor of Chemistry, Physics, and Toxicology.
- W. GILMAN THOMPSON, M.D.,
Professor of Medicine, Physician to the Presbyterian and Bellevue Hospitals.
- GEORGE WOOLSEY, M.D.,
Professor of Anatomy and Clinical Surgery, Surgeon to Bellevue Hospital.
- HENRY P. LOOMIS, M.D.,
Professor of Materia Medica, Therapeutics, and Clinical Medicine, Visiting Physician to the New York and Bellevue Hospitals.
- J. CLIFTON EDGAR, M.D.,
Professor of Obstetrics and Clinical Midwifery, Visiting Physician to the Society of the Lying-in Hospital and to the Maternity Hospital.
- AUSTIN FLINT, M.D.,
Professor of Physiology.
- FREDERIC S. DENNIS, M.D.,
Professor of Clinical Surgery, Surgeon to Bellevue Hospital.
- FREDERICK W. GWYER, M.D.,
Professor of Operative and Clinical Surgery, Visiting Surgeon to Bellevue Hospital.
- IRVING S. HAYNES, M.D.,
Professor of Practical Anatomy, Surgeon to the Harlem Hospital.

CLINICAL PROFESSORS AND OTHERS.

- JOSEPH E. WINTERS, M.D.,
Professor of Diseases of Children, Visiting Physician to Willard Parker Hospital.
- CHARLES STEDMAN BULL, A.M., M.D.,
Professor of Ophthalmology, Visiting Surgeon to New York Eye and Ear Infirmary.
- NEWTON M. SHAFFER, M.D.,
Professor of Orthopædic Surgery, Surgeon in Chief to New York Orthopædic Dispensary and Hospital.
- GORHAM BACON, M.D.,
Professor of Otology, Aural Surgeon to New York Eye and Ear Infirmary.
- CHARLES L. DANA, M.D.,
Professor of Diseases of the Nervous System, Physician to Bellevue Hospital, Neurologist to the Montefiore Home.
- SAMUEL ALEXANDER, M.D.,
Professor of Diseases of the Genito-Urinary System, Surgeon to Bellevue Hospital.
- GEORGE THOMAS ELLIOT, M.D.,
Professor of Dermatology, Assistant Physician to the Skin and Cancer Hospital.
- ALLAN McLANE HAMILTON, M.D.,
Professor of Mental Diseases, Consulting Physician Manhattan State Hospital [for the Insane].
- CHARLES H. KNIGHT, M.D.,
Professor of Laryngology, Surgeon to the Manhattan Eye and Ear Hospital, Throat Department.
- ALEXANDER LAMBERT, M.D.,
Professor of Clinical Medicine, Instructor in Physical Diagnosis, Visiting Physician to Bellevue Hospital.
- FRANCIS W. MURRAY, M.D.,
Professor of Clinical Surgery, Visiting Surgeon to St. Luke's and New York Hospitals.
- CHARLES E. NAMMACK, M.D.,
Professor of Clinical Medicine, Visiting Physician to Bellevue Hospital.
- FRED. KAMMERER, M.D.,
Professor of Clinical Surgery, Surgeon to German and St. Francis Hospitals.
- JOHN SICKELS, M.D.,
Assistant Professor of Chemistry and Physics.

INSTRUCTORS.

CHARLES C. BARROWS, M.D.,

Instructor in Clinical Gynæcology, Assistant Gynæcologist, Bellevue Hospital.

PERCIVAL R. BOLTON, M.D.,

Instructor in Surgery, Assistant Surgeon, Bellevue Hospital.

BERTRAM H. BUXTON, M.D.,

Instructor in Bacteriology.

DEVER S. BYARD, M.D.,

Instructor in Medicine.

CHARLES N. BANCKER CAMAC, M.D.,

Instructor in Clinical Microscopy.

WARREN COLEMAN, M.D.,

Instructor in Clinical Medicine and in Materia Medica, Visiting Physician to City Hospital.

LEWIS A. CONNER, M.D.,

Instructor in Medicine, Assistant Pathologist to the New York Hospital.

FRANK S. FIELDER, M.D.,

Assistant Demonstrator of Anatomy.

JOSEPH FRAENKEL, M.D.,

Instructor in Diseases of the Nervous System.

WILLIAM TRAVIS GIBB, M.D.,

Instructor in Clinical Gynæcology.

GEORGE D. HAMLEN, M.D.,

Instructor in Gynæcology and Obstetrics.

JOHN A. HARTWELL, M.D.,

Instructor in Physiology.

EDWARD L. KEYES, JR., M.D.,

Assistant Demonstrator of Anatomy.

J. E. NEWCOMB, M.D.,

Instructor in Laryngology.

LOUIS W. RIGGS, PH.D.,

Instructor in Chemistry and Physics.

JOHN ROGERS, JR., M.D.,

Instructor in Surgery, Assistant Demonstrator of Anatomy.

EDMUND PENDLETON SHELBY, M.D.,

Instructor in Materia Medica Laboratory.

WILLIAM F. STONE, M.D.,

Instructor in Anatomy, Assistant Demonstrator of Anatomy.

- GEORGE K. SWINBURNE, M.D.,
Instructor in Diseases of the Genito-Urinary System.
- BENJAMIN T. TILTON, M.D.,
Instructor in Surgery.
- GEORGE GRAY WARD, JR., M.D.,
Instructor in Obstetrics.

CLINICAL ASSISTANTS.

- ROBERT STAUNTON ADAMS,
Clinical Assistant in Diseases of Children, Attending Physician to Children's Class, Demilt Dispensary.
- RUSSELL BELLAMY, M.D.,
Clinical Assistant in Medicine.
- W. BEDFORD BROWN, M.D.,
Clinical Assistant in Dermatology.
- JOHN CABOT, M.D.,
Clinical Assistant in Diseases of the Genito-Urinary System.
- EARLE CONNOR, M.D.,
Clinical Assistant in Otology.
- WILLIS S. COOKE, M.D.,
Clinical Assistant in Diseases of Children.
- COLEMAN WARD CUTLER, M.D.,
Clinical Assistant in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary, Attending Ophthalmic Surgeon to St. Luke's Hospital.
- ROBERT M. DALEY, M.D.,
Clinical Assistant in Diseases of the Nervous System.
- JOHN M. ECHEVERRIA, M.D.,
Clinical Assistant in Diseases of the Genito-Urinary System.
- P. HENRY FITZHUGH, M.D.,
Clinical Assistant in Orthopædics, Assistant Surgeon New York Orthopædic Dispensary and Hospital, Assistant Surgeon Daisy Field Hospital.
- ARCHIBALD E. ISAACS, M.D.,
Clinical Assistant in Surgery.
- CATESBY C. JONES, M.D.,
Clinical Assistant in Otology, Clinical Assistant New York Eye and Ear Infirmary.
- J. A. KENEFICK, M.D.,
Clinical Assistant in Laryngology.
- THURSTON G. LUSK, M.D.,
Clinical Assistant in Dermatology, Dermatologist to the Outdoor Department of Roosevelt Hospital.

ROBERT G. REESE, M.D.,

Clinical Assistant in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary.

GEORGE DE FOREST SMITH, M.D.,

Clinical Assistant in Mental Diseases.

WILLIAM F. STONE, M.D.,

Clinical Assistant in Surgery.

HENRY H. WHITEHOUSE, M.D.,

Clinical Assistant in Dermatology, Assistant Surgeon to the New York Skin and Cancer Hospital, Dermatologist to Demilt Dispensary.

NOTE.—Appointments in the Department of Pathology to be announced.

STAFF OF INSTRUCTION AT ITHACA.

GEORGE CHAPMAN CALDWELL, B.S., Ph.D.,

Professor of Chemistry.

BURT GREEN WILDER, B.S., M.D.,

Professor of Physiology.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D.,

Professor of Physics.

SIMON HENRY GAGE, B.S.,

Professor of Microscopy, Histology, and Embryology.

VERANUS ALVA MOORE, B.S., M.D.,

Professor of Pathology and Bacteriology.

WILLIAM RIDGELY ORNDORFF, A.B., Ph.D.,

Assistant Professor of Organic Chemistry.

JOSEPH ELLIS TREVOR, Ph.D.,

Assistant Professor of Chemistry.

PIERRE AUGUSTINE FISH, B.S., D.Sc., D.V.S.,

Assistant Professor of Physiology and Materia Medica.

LUZERNE COVILLE, B.S., M.D.,

Lecturer and Demonstrator in Anatomy.

EMILE MONNIN CHAMOT, B.S., Ph.D.,

Lecturer in Toxicology.

FREDERIC LAWRENCE KORTRIGHT, D.Sc.,

Instructor in Chemistry.

Note.—Other names will be announced hereafter.

Clerk of the College, J. THORN WILLSON,

414 East 26th Street.

ADMISSION AND CLASSIFICATION OF STUDENTS.

REQUIREMENTS FOR ADMISSION.

For admission to the Cornell University Medical College students must furnish satisfactory evidence of good moral character, and must conform to the rules and regulations of the New York State Board of Regents. No entrance examination other than that of the Regents is required.

While it is not necessary, it is highly advantageous that students entering upon the study of medicine should have had a college or university training in the liberal arts and sciences; and for the benefit of such it has been arranged that students in the Academic Department of Cornell University may elect in the Medical College certain studies, thereby materially shortening the time required for taking both the A.B. and M.D. degrees.

REGENTS' ENTRANCE EXAMINATIONS AND CERTIFICATES.

The following requirements for admission to candidacy for a degree in *any medical college in New York State* were established by laws passed by the Legislature, to take effect March 21, 1896.

MEDICAL STUDENTS' CERTIFICATES.

Each student who matriculates with the intention of becoming a candidate for the degree of doctor in medicine, whether he comes to New York to begin or continue the study of medicine, must file with the dean of the College a medical-student's certificate issued by the Regents of the University of the State of New York.

This certificate is granted according to the following extract of the Laws of 1896, ch. 3 :

To provide for the preliminary education of medical students:

The degree of bachelor or doctor of medicine shall not be conferred in this State before the candidate has filed with the institution conferring it the certificate of the Regents that before beginning the first annual medical course counted toward the degree (unless matriculated condi-

tionally as hereinafter specified), he had either graduated from a registered college or satisfactorily completed a full course in a registered academy or high school; or had a preliminary education considered and accepted by the Regents as fully equivalent; or held a Regents' medical-student certificate, granted before this act took effect; or had passed Regents' examinations as hereinafter provided. A medical school may matriculate conditionally a student deficient in not more than one year's academic work or twelve counts of the preliminary education requirement, provided the name and deficiency of each student so matriculated be filed at the Regents' office within three months after matriculation, and that the deficiency be made up before the student begins the second annual medical course counted toward the degree. Students who had matriculated in a New York medical school before June 5, 1890, and students who had matriculated in a New York medical school before May 13, 1895, as having entered before June 5, 1890, on the prescribed three-years' study of medicine, shall be exempt from this preliminary education requirement.

A medical student certificate may be earned without notice to the Regents of the conditional matriculation either before the student begins the second annual medical course counted toward the degree or two years before the date of the degree for matriculants in any registered medical school, in the four cases following:

1. For matriculants prior to May 9, 1893, for any twenty counts, allowing ten for the preliminaries, not including reading and writing.

2. For matriculants prior to May 13, 1895, for arithmetic, elementary English, geography, spelling, United States history, English composition, and physics, or any fifty counts, allowing fourteen for the preliminaries.

3. For matriculants prior to January 1, 1896, for any twelve academic counts.

4. For matriculants prior to January 1, 1897, for any twenty-four academic counts.

But all matriculants, after January 1, 1897, must secure forty-eight academic counts, or their full equivalent, before beginning the first annual medical course counted toward the degree, unless admitted conditionally, as hereinbefore specified, when the deficiency must be made up before the student begins the second annual medical course counted toward the degree.

(This act shall take effect March 21st, 1896, except that the increase in the required course of medical study from three to four years shall take effect January 1, 1898, and shall not apply to students who matriculated before that date and who received the degree of doctor of medicine before January 1, 1902.)

CERTIFICATES WITHOUT EXAMINATIONS.

Students are advised to communicate with the Regents of the University, Albany, N. Y., and procure certificates before entering the college; or they may present or forward their credentials to the secretary

of the college, who will promptly send them to the Regents for examination and approval. They will be returned as soon as verified, and, if accepted, the proper certificate will be sent with them. The secretary of the college will furnish, on application, blank forms of collegiate, academic, or high-school certificates to be filled out and sent to the Regents. Other equivalent credentials from foreign countries or from other States may be accepted by the Regents at their discretion.

NOTES ON THE LAW.

1. For matriculates prior to January 1, 1897, medical schools are not required to furnish notice of conditional matriculation, and such students may make up the full requirement at any time before beginning the second annual course counted toward the degree, or two years before the date of the degree.

All matriculants after January 1, 1897, must secure forty-eight academic counts or their full equivalent before beginning the first annual course counted toward the degree, unless admitted conditionally, in which case the deficiency is not to exceed twelve academic counts and must be made up before the student begins the second annual course counted toward the degree.

2. The Regents will accept as fully equivalent to the required academic course any one of the following :

(a) A certificate of having successfully completed at least one full year's course of study in the collegiate department of any college or university, registered by the Regents as maintaining a satisfactory standard.

(b) A certificate of having passed in a registered institution examinations equivalent to the full collegiate course of the freshman year or to a completed academic course.

(c) Regents' pass card for any forty-eight academic counts or any Regents' diploma.

(d) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(e) A certificate of successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(f) The bachelor's degree in arts or science, or substantial equivalents from any registered institution in France or Spain.

(g) Any credential from a registered institution or from the government in any foreign state or country which represents the completion of a course of study equivalent to graduation from a registered New York high school or academy or from a registered Prussian gymnasium.

3. Other equivalent credentials from other States and countries besides those specified in the law, which may be accepted by the Regents in place of an examination, may be ascertained by written application to Examination Department, University of the State of New York, Albany, N. Y.

4. Any student who has matriculated under the legal requirements in regard to Regents' examinations, existing at the time of matriculation, will not require another certificate whenever he may be graduated.

5. If students unable to offer equivalents come from out of the State, they may enter the second course counted toward the degree, provided that at the preceding June or September examination they meet the preliminary requirement.

Medical students' certificates issued on "equivalents" without examination, may be obtained at any time before the degree of M.D. is conferred, provided that the course of study for which the certificate is issued was completed within the prescribed time.

EXAMINATIONS UNDER THE ACT.

Students who do not obtain a medical-student's certificate without examination must pass an examination on the subjects required by the Regents. These examinations are held entirely under the charge of the Regents in New York, and in many other places throughout the State, on the following dates :

CALENDAR OF REGENTS' EXAMINATIONS.

YEAR	JAN.	MAR.	JUNE	SEPT.
1898			13-17	27-29
1899	23-27	29-31	12-16	26-28
1900	22-26		11-15	25-27

NOTE.—September examinations will be held in New York, Albany, Syracuse, and Buffalo, for law and medical students only. The other examinations are held in New York and in numerous academies and high schools throughout the State for professional and academic students.

APPLICATION FOR ADMISSION TO MEDICAL SCHOOLS.

The minimum requirement for a medical-student certificate is four years of satisfactory high-school work or its equivalent (for matriculates after January, 1897).

For admission to the study of certain professions, New York laws require the completion of satisfactory work in a registered high school or its equivalent. Candidates for certificates, either without examination or by partial examinations, should submit this application to the Examination Department, University State of New York, Albany, N. Y., which will send either the proper certificate or a statement of credit given for all work done and of farther requirements.

BASIS OF REGISTRATION.

Admission to a high school presupposes at least eight years of common school or pre-academic work. The minimum requirement for each high-school year is three academic subjects taken five times a week throughout the year. The Regents count forty weeks as a full academic year;

but if the candidate has passed successfully in a registered institution all the examinations for a full year's work, the question of actual attendance is not raised. Institutions throughout the world are registered if they offer academic work equivalent to one or more years in a registered high school.

NOTES.

Partial equivalents may be accepted for medical-student certificates—*i.e.*, evidence of completion in a registered school of one or more full years of high-school work and Regents' examinations in additional subjects representing the balance of the required academic course.

Regents' examinations in the second or third year of any language course will be accepted as including the preceding years in those courses.

Candidates unable to offer certificates of the required academic work in a registered institution may present evidence to the Regents that they had the required preliminary education, and may on passing Regents' examinations receive their certificates as of the date when the preliminary work was completed.

Printed question papers will be issued from the Regents' office for each examination. Answers must be written on both sides of letter paper, and arranged and numbered in the same order as the questions.

Seventy-five per cent of correct answers is required in all subjects.

Answer papers will be reviewed in the Regents' office, and all papers below standard will be returned to the candidates. For those accepted, pass cards will be issued.

Pass Cards.—A Regents' pass card is not limited in time ; therefore it is not necessary to pass any Regents' examination a second time.

To insure success, candidates should have a thorough knowledge of the whole of a standard school text-book on each required subject, including the metric system, but not cube root in elementary arithmetic.

Medical-Student Certificate.—When all requirements are fulfilled, the Regents grant a medical-student certificate.

On receiving this certificate, the candidate must send it to the secretary or recording officer of the university or college at which he intends to study medicine.

N. B.—*Candidates for medical-student examinations should send notice at least ten days in advance, stating at what time and in what studies they wish to be examined*, that required desk room may be provided at the most convenient place.

Candidates who fail to send this advance notice will be admitted only so far as there are unoccupied seats.

DIRECTIONS FOR OBTAINING A REGENTS' MEDICAL-STUDENT CERTIFICATE.

1. Give the full name of the applicant, the exact name of the institution and of the department attended, an accurate description of the course pursued, using the same terms that are given in the official announcement, circular, or catalogue of the institution.

2. Send an official announcement, circular, or catalogue of the institution, showing:

(a) Requirements for admission, *i.e.*, subjects and years given to their completion.

(b) Requirements for graduation in each course, including subjects pursued and time devoted to each.

MELVIL DEWEY, *Secretary.*

JAMES RUSSELL PARSONS, JR.,

Director of Examinations.

Regents' Office, Albany, N. Y.,

15 April, 1898.

REGISTRATION AND MATRICULATION.

Students on entering the College will be required to register and pay the registration fee of \$5. They will receive a receipt for this fee, which will be exchanged for a certificate of full or conditional matriculation when they shall have complied with the Regents' requirements for such matriculation; but students who have already been matriculated at a medical college in the State of New York, according to the Regents' requirements, and those who already hold medical-student certificates, will be matriculated immediately on registration.

(I) ADMISSION TO ADVANCED STANDING IN THE FIRST YEAR.

Graduates of Cornell, Yale, Harvard, Princeton, University of Pennsylvania, Johns Hopkins, Columbia, University of Michigan, and other accredited universities, who have taken either a preparatory medical course or special work in organic and inorganic chemistry, physics, or physiology, will be allowed credit for the work which they have done and may be excused from the recitations upon these subjects, and from the exercises of the chemical laboratory in the first year, provided they pass examinations before the professors of these departments, and provided they give to dissection and advanced laboratory work, in various departments, a full equivalent in hours to the subjects they may have passed by examination. These examinations are held at the opening of the session.

Students who have had training in microscopical technique or in histology will be given advanced work in the histological laboratory.

Students who have already attended courses in other medical colleges may be admitted to advanced standing in the four-years' course of the Cornell University Medical College under the following conditions:

(2) ADMISSION TO THE SECOND YEAR.

Students from other accredited medical colleges desiring to enter the second year of the course must present certificates of attendance in laboratory courses of histology, chemistry, and materia medica corresponding in extent with those described on pages 27 to 31, or they must pass examinations in these branches. They must also show certificates of one year's work in dissection. There will be no other entrance examinations.

(3) ADMISSION TO THE THIRD YEAR.

Students coming from other accredited medical colleges desiring to enter the third year must pass final examinations in the subjects of anatomy, physiology, chemistry and physics, and materia medica, and must present satisfactory certificates of laboratory instruction in histology, and chemistry, and pathology, and in dissection. In lieu of a certificate of attendance on any laboratory course included in the curriculum of this College, students will be obliged to take the course during their third year.

(a) *Admission to the Class Graduating in 1899.*

Those admitted after two full courses in other accredited medical colleges may enter the class graduating in 1899 if they so elect. After the session of 1898-99 four full years of study will be required.

(4) ADMISSION TO THE FOURTH YEAR.

Students coming from other accredited medical colleges, in which they have already passed three years of study, will be admitted to the fourth year, upon passing examinations in those subjects the study of which has been com-

pleted during the first three years of the course as specified in the curriculum on pages 38 to 41.

(5) STUDENTS FROM OTHER COLLEGES.

Graduates of pharmacy or of dental or veterinary or other professional schools, who can present satisfactory evidence of having completed any course of study required in any year of the Cornell Medical College, may upon passing a satisfactory examination be excused from attendance upon instruction in that subject, provided they take equivalent additional work in other branches.

All examinations required of students coming from other colleges may be taken either at the commencement or end of the year they enter, as they may elect.

(6) ADMISSION TO SPECIAL COURSES.

Graduates in medicine, or students who desire to pursue a special course without graduation, are admitted to registration as special students without Regents' or other preliminary examination. Such special courses do not count in any way as part of the four-years' course, required of candidates for the degree of doctor in medicine. Further information regarding such courses, fees, etc., may be obtained by addressing the Secretary of the Cornell University Medical College, 414 East Twenty-sixth Street.

REQUIREMENTS FOR ADVANCEMENT IN COURSE.

Students are advanced in course from one year to the next upon passing examinations in the work of that year. As in the academic department of the University, the work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year.

Students who have not succeeded in passing all their examinations will be allowed to enter upon the next year's studies, provided they have not failed in more than two branches. Having failed in more than two branches, they must repeat the work of the previous year.

Having failed in not more than two branches, they must be reëxamined within one month of the opening of the next collegiate year. Should they then fail to pass in the conditioned subject or subjects they must repeat the work in which they have failed in connection with their advanced study and be reëxamined therein at the close of the year. If they again fail in these reëxaminations, they must repeat the entire year's work.

REQUIREMENTS FOR THE DEGREE OF M.D.

1. Candidates for the degree of doctor of medicine must have studied medicine for four full years in an accredited medical college, and the fourth year at least must have been spent in the Cornell University Medical College.

Note. In 1899 only, students may graduate after three full years of study.

2. Candidates must present satisfactory evidence of good moral character and of being not less than twenty-one years of age.

3. Candidates must file with the Secretary of the Faculty the Regents' Medical Student's certificate as evidence of having complied with the requirements for admission (see page 12).

4. Candidates must have taken two courses of practical anatomy (see page 25). They must further have taken the regular course of two weeks at the Lying-in Hospital or its equivalent in practical obstetrical work.

5. In addition to the yearly examinations above specified for advancement in course candidates must pass at the end of the fourth year examinations in medicine, surgery, obstetrics, and gynæcology, including such minor branches as are specified in the curriculum (pp. 38-41).

6. Candidates rejected at the final examination will not be reëxamined until after having repeated their fourth year of study.

7. The degree will not be conferred upon any candidate who absents himself from the Public Commencement without the special permission of the Faculty.

8. The Faculty reserves the right to terminate the connection of any student with the institution *at any time* on the ground of what they may deem moral or mental unfitness for the profession, or improper conduct while connected with the College.

LICENSE TO PRACTISE.

The requirements for admission to examination for license to practise medicine in the State of New York are specified in the following provisions of the Laws of 1896, ch. iii. :

§ 145. *Admission to Examination.*—The Regents shall admit to examination any candidate who pays a fee of \$25 and submits satisfactory evidence, verified by oath, if required, that he—

1. Is more than twenty-one years of age.
2. Is of good moral character.
3. Has the general education required preliminary to receiving the degree of bachelor or doctor of medicine in this State.
4. Has studied medicine not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, in four different calendar years in a medical school registered as maintaining at the time a satisfactory standard. New York medical schools and New York medical students shall not be discriminated against by the registration of any medical school out of the State, whose minimum graduation standard is less than that fixed by statute for New York medical schools. The Regents may, in their discretion, accept as the equivalent for any part of the third and fourth requirement evidence of five or more years' reputable practice, provided that such substitution be specified in the license.
5. Has either received the degree of bachelor or doctor of medicine from some registered medical school, or a diploma or license conferring full right to practise medicine in some foreign country.

SCHOLARSHIPS.

NEW YORK STATE SCHOLARSHIPS.

Under the law of the State the Superintendent of Public Instruction is empowered to award annually a number of free scholarships in Cornell University equal to the number of assembly districts in the State. These scholarships entitle the holder to free tuition for four years in any department of Cornell University. They are awarded on examination to candidates from the general Assembly districts "in consideration of their superior ability, and as a reward for superior scholarship in the academies and public schools of this State."

For particulars in regard to these scholarships, application should be made to the Superintendent of Public Instruction at Albany.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS.

Pursuant to the action of the trustees there will annually be thrown open to competition for all members of the freshman class who are registered in courses leading to first degree, at a special examination held at Ithaca at the beginning of the freshman year, eighteen scholarships of the annual value of \$200 each.

Students of high ability from the State of New York will have the additional advantage of being able to secure state scholarships, as there is nothing in the university statutes to prevent a student from holding both a state scholarship and a university scholarship.

These scholarships will be given for passing examinations which shall average the highest in any three of the following groups, of which group (*a*) must be one. Previous to entering this competitive examination, however,

candidates are required to pass satisfactorily at the University the regular entrance examination in English. *School certificates, Regents' diplomas, and normal school diplomas* are not accepted in place of this English examination.

(a) Arithmetic, and algebra through quadratic equations.

(b) Plane and solid geometry.

(c) Greek.

(d) Latin.

(e) French.

(f) German.

For further information in regard to the scholarships see the Register of Cornell University.

COURSE OF INSTRUCTION.

The essential features of the course are as follows:

1. RECITATIONS.—The study of each branch is begun by compulsory recitations, with the class divided into sections. These recitations take the place of much of the former didactic lecture system, and are extended through the four years.

2. LABORATORY INSTRUCTION.—Thorough laboratory instruction is given and attendance thereat is required in histology, pathology, chemistry, materia medica, clinical microscopy, and bacteriology.

A course of practical obstetrics in the service of the Lying-in Hospital or its equivalent, practical work in operative surgery, and two courses of dissection are required.

3. CLINICAL AND BEDSIDE INSTRUCTION.—Besides the general and special clinics held in Bellevue Hospital, the college building, and in other New York hospitals, *practical clinical* instruction will be given to the third and fourth year classes in sections in the wards of Bellevue Hospital.

Ward work will be conducted for students in small groups, under the instruction of the professors and clinical professors of medicine, surgery, and the special branches in Bellevue and the various hospitals and dispensaries with which this large corps of teachers are connected.

4. GRADATION OF THE COURSE.—No student is allowed to progress to a higher class unless his work in the class next below has attained a satisfactory standard, or unless the conditions allowed have been made good as specified on p. 19. For this purpose attendance on recitations, laboratory exercises, dissection, and ward work is compulsory, and the marks obtained in these exercises help to determine the advancement of the student to the next higher class. Examinations are held during and at the end of each year, which are final for the work of that year.

METHODS OF INSTRUCTION IN THE SEPARATE BRANCHES OF STUDY.

ANATOMY.

Anatomy is taught in the first and second years by lectures, recitations, section demonstrations, and dissection. A review quiz to prepare for state and hospital examinations is held during the fourth year.

LECTURES are confined to practical applied anatomy and are given by the Professor of Anatomy once a week to students of the first year and three times a week to students of the second year. In the first year the lectures embrace the practical anatomy of the bones and joints, following the recitations on these subjects. In the second year, after a short introductory course on embryology, the lectures are devoted to regional, applied, and surgical anatomy, the students being already well grounded in descriptive anatomy.

One lecture a week is given during the second year by the Professor of Practical Anatomy on the nervous system, the shape and relation of the viscera, the joints, etc.

Descriptive anatomy is taught by recitations, section demonstrations, and dissection.

RECITATIONS, from standard text-books, are held by the Instructor in Anatomy twice a week for each section of the first-year class and once a week for each section of the second-year class. During the first year bones, joints, muscles, arteries, and veins are recited upon; during the second year the viscera and the nervous system. Written reviews are held at intervals under the direction of the Professor of Anatomy, the last of which is a general review or examination of the year's work. In the first year the students of each section begin to recite upon the bones of that part which they are to dissect at the end of the first month, and so on through the second and third months.

SECTION DEMONSTRATIONS are conducted by the Professor and Demonstrators of Practical Anatomy once a week for each section during the first and second years. During the first three months of the first year that part is demonstrated the bones of which are being studied and which the members of the section are to dissect the next following month. The students are taught how to dissect, what to find, and where to find it. After this the joints are demonstrated and a preliminary demonstration of the viscera is given. In the second year, the brain and nervous system, organs of sense, viscera, and perineum are demonstrated.

DISSECTION.—The dissection of six parts (two courses) is required, and more may be done at the option of the student. Three to five parts may be dissected in the first year; one to three, or more, in the second year. In the first year, dissection is commenced after the recitations and section demonstrations of the first month have prepared each student for the part assigned, and so on for the first three parts.

In the dissection of the second three parts the work of the first course, including the joints, is reviewed, and in addition the dissection of the viscera and minuter parts is required. Students are examined and marked on the dissection of each part required. Prepared bones are loaned to students during the session from a large collection kept for this purpose.

Preliminary training in comparative anatomy is very desirable. A *practical* in addition to a *written examination* is held by the professor of anatomy at the end of the second year. At the end of the first year there is a written review or examination on the work of the year.

PHYSIOLOGY.

Instruction in this branch is given by recitations and demonstrations during the entire session to the first and second year students.

RECITATIONS.—The first-year students recite twice weekly from a standard text-book, completing the entire

subject, except the nervous system and the special senses. During the second year they recite once a week, devote their time to the nervous system and special senses, and review the work of the preceding year. The instructor, by means of fresh dissections, models, and additional explanations, is enabled to make the more difficult portions of the subject comprehensible.

LECTURES.—The lectures by the professor are so far as possible experimental and illustrative, particular attention being paid to the practical application of physiological principles of medicine and surgery.

The physiological laboratory is amply provided with models and apparatus for illustration and for original research.

HISTOLOGY.

The work in this department is conducted throughout the first year by means of recitations and laboratory exercises.

RECITATIONS.—Recitations are held weekly throughout half the first year on subjects assigned from a standard text-book on histology.

LABORATORY EXERCISES, two-hour sessions, are held twice each week through half the year. The work comprises instruction in the structure and use of the microscope; the preparation, hardening, embedding, cutting, staining, and mounting of all the various normal tissues of the body, together with special methods for the preparation of blood, bone, and the nerves for histological study.

Theoretical study of a tissue or organ is immediately followed by its practical demonstration in the laboratory, and a knowledge of its entire histological structure is acquired before the physiological study of its functions is entered upon.

An examination is held at the close of the course which constitutes part of the final examination in physiology.

EQUIPMENT.—The histological laboratory, comprising the greater portion of the fifth floor of the Loomis Labora-

tory, is provided with suitable tables and projection apparatus. Each student is supplied with a new model Leitz microscope of improved pattern, and with staining and mounting fluids, enabling him to stain and permanently mount the tissues used throughout the course.

Tissues thus mounted are the property of the student and are of great value to him for future reference.

The ample facilities for obtaining anatomical material permit the general use of tissues from the human body, which is supplemented whenever desirable by preparations from the lower animals.

Graduates and students who have pursued courses in biology at academic colleges will be given every opportunity for advanced work and original research.

BACTERIOLOGY.

Bacteriology will be taught the students of the first year by laboratory exercises for two hours twice a week for one month. The course will include demonstration of the principal bacteria concerned in familiar pathological processes, together with the study of their culture media, methods of growth, staining reactions, etc.

Students of the fourth year may take an elective course in advanced bacteriology.

The Bacteriological Department is thoroughly equipped with all the necessary apparatus. The collection of cultures is very extensive, and special students will be provided with conveniences for the study of bacteriology such as to meet every possible requirement.

CHEMISTRY, PHYSICS, AND TOXICOLOGY.

Students of the first year will receive two lectures each week on physics. Those of the second year will receive one lecture each week on organic and physiological chemistry. Those of the third year will receive one lecture each week on toxicology.

Students of the first year will recite twice each week on

physics and the principles of chemistry and mineral chemistry. Those of the second year will recite once weekly on organic and physiological chemistry.

Laboratory instruction will be given students of the first year six hours weekly during one-half of the session. This course will consist of an experimental study of the commoner elements and compounds in illustration of the recitation course, and of training in the processes of qualitative analysis of inorganic substances.

After the session of 1898-99 students of the second year will receive four hours' laboratory instruction weekly during one-half the term in physiological and toxicological chemistry.

Each student is fully supplied with all apparatus and chemicals required, except urinometers, which are carefully corrected for the student that they may serve for future use.

These courses are personally conducted by the Professor of Chemistry and Physics, assisted by the instructors.

First-year students presenting satisfactory evidence of having performed equivalent work in chemistry and physics will be excused from first-year work in this department, and be given advanced laboratory work equivalent in hours to that omitted.

MATERIA MEDICA AND THERAPEUTICS.

Instruction is given in this department by means of lectures, clinical instruction, recitations, and practical laboratory work.

LECTURES.—These are given by the professor once a week to the second-year students and once a week to the third-year students. They are confined almost exclusively to therapeutics, as it is believed that materia medica can best be taught by recitations and by laboratory work.

The physiological action of drugs will receive special attention and their therapeutic application will be explained, so that the treatment of disease may be on a systematic basis.

Lectures will be given on remedial agents other than

drugs, such as massage, dietetics, climatology, mineral waters, and hydropathy.

CLINICAL INSTRUCTION.—A new departure in the teaching of therapeutics will be made by affording the students of the third year opportunity to observe the effects of the different remedies, including electricity, baths, douches, etc., on the natural course of disease. To accomplish this the classes will be divided into small sections and taken by the professor into the wards of Bellevue Hospital. The treatment of the different diseased conditions observed will be systematically studied, and opportunities will be given to the members of the class to make personal examination of the patients and to watch the modification of disease produced by the remedies prescribed; a general medical clinic will be held by the professor once a week in the amphitheatre of Bellevue Hospital.

RECITATIONS.—Students of the second year will recite to the instructors twice a week from a standard textbook. During the third year a recitation will be held once a week on therapeutics.

The recitations will embrace a study of the action of all the more valuable remedial agents in connection with the description of the drugs themselves.

Each student will be thoroughly drilled in prescription writing and in the doses of the more important drugs.

Examinations will be held at stated times during the session by the professor to enable him to judge of each student's progress.

LABORATORY WORK.—The course of laboratory instruction is taken during the first year, and consists of four hours each week for half the year. The class is divided into small sections, and is under the personal supervision of the instructor. The method of instruction is distinctly practical. The student is made familiar by the laboratory work with the physical and chemical properties of drugs. This course includes such subjects as the forms of drugs, their weight and bulk, the measurement of solid and fluid drugs, methods of administering medicines, particularly with reference to appropriate combinations, and the demon-

stration of solubilities. The subject of incompatibilities is clearly demonstrated.

Actual practice is given in the employment and application of the various therapeutic agents used in medicine, such as the hypodermic syringe, aspirators, cups, cauteries, stomach-pump, stupes, and the different varieties of baths and packs. Prescription writing is taught throughout the course, and each prescription written is compounded by some member of the section.

The materia medica laboratory is equipped for pharmaceutical instruction, and students are taught by practical exercises in the preparation and compounding of drugs.

The laboratory is provided with a full assortment of crude drugs and the various preparations of the materia medica, also with complete appliances for instruction in the remedial agents which are not medicines.

PATHOLOGY.

One lecture each week will be given to students of the third year on general pathology, considering the causes and processes of disease from both the medical and the surgical standpoint, illustrated by pathological specimens, diagrams, and projections on the screen of photomicrographs.

Students of the second year will recite once each week from a standard text-book.

Laboratory instruction will be given students of the second year in two sections, each for six hours weekly during one-half of the session.

The laboratory course embraces the following:

1. Study of microscopical sections illustrating all the lesions of the various organs, including the brain, cord, and nervous system. These sections are prepared and retained by the students.
2. Demonstration of gross pathological specimens illustrating the various sections as they are studied.
3. Study of typical varieties of all the tumors and pathological fluids and secretions.

4. Microscopical examination of the urine, including casts and urinary deposits.
5. Micro-organisms and the method of staining tubercle bacilli, gonococci, diphtheria bacilli, malaria plasmodia, etc.
6. Methods of blood examinations.

An examination is held at the close of the course.

The pathological laboratory is provided with every convenience for private investigation, and more extended and exhaustive instruction than may be afforded in the regular courses. Opportunities will be furnished to graduates and advanced workers personally to conduct autopsies on pathological and medico-legal cases.

Microtomes, and all the necessary chemicals and reagents, are at the disposal of those working in the laboratory.

Two private rooms and a fully equipped workshop are connected with this department.

The Photographic Department is provided with complete equipment for photographing gross specimens, and especially for photomicrography. The newest apparatus made by Zeiss has been imported for this purpose.

POST-MORTEM EXAMINATIONS.

In addition to the scholastic instruction which will be given in pathological anatomy, students will be taken by the Curator to the post-mortem room of Bellevue Hospital, where examinations will be made in their presence, giving them opportunities personally to perform autopsies and to study diseased tissues and organs *in situ*.

Once a week a post-mortem is made before the class on either a medico-legal case or a case with complete clinical history. In the latter instance the diseased processes found are studied in connection with the clinical phenomena observed.

MEDICINE.

The study of medicine is begun in the *second year* by recitations from an elementary text-book, in which the

subjects of etiology and the typical symptoms of disease are emphasized. The subject of physical diagnosis is also begun in the latter part of this year, for which study the students are divided into small sections which meet in the hospitals and dispensaries.

In the *third year* recitations from an advanced text-book are conducted, special emphasis being given to symptomatology, diagnosis, and treatment, physical diagnosis is continued, and systematic ward work is begun. In the latter, section classes are drilled at the bedside by the Instructor in General Medical Diagnosis, and the students in small sections also accompany the Professor of Medicine and Professors of Clinical Medicine upon their rounds through the wards of such hospitals as the Bellevue, the Presbyterian, the New York, or others with which they may be connected. Each student will be drilled in the systematic examination of patients, and will be required to keep complete histories of special cases to which he may be assigned, and which he is required to observe from day to day. With the coöperation of the Instructor in Clinical Microscopy he will make examinations of the urine, sputum, blood, etc., of the patients under observation.

General medical clinics will be held twice a week in the amphitheatre of Bellevue Hospital, at which selected cases are systematically presented to the class, students being called upon in rotation to demonstrate symptoms and make diagnoses. A course of ten lectures will be given by the Professor of Medicine, which will be designed as introductory to the systematic bedside teaching which he conducts upon his hospital rounds. The course will cover such general topics as the theory and nature of infections, the theory and significance of fever, cachexias, diatheses, the blood in disease, etc.

During the *fourth year* the ward work in the hospital rounds and the general medical clinics will be continued. A special elective course will be offered in clinical microscopy. General review quizzes will be held to fit students for their hospital and state examinations.

During the latter part of the term medical conferences

will be presided over by the Professor of Medicine or his assistants, at which students will present detailed histories of cases which they may have studied for at least two or three weeks, which will be open to criticism and discussion by other members of the class. Hypothetical cases may also be discussed at these meetings. A course of ten lectures upon symptomatology will be delivered by the Professor of Medicine.

SURGERY.

Surgery will be taught in the recitation room, at the bedside, and at hospital clinics: a few didactic lectures will be given and conferences will be held in the fourth year.

In the second year the students are required to attend recitations on the principles of surgery throughout the term, two hours a week. For this purpose the class is divided into small sections to insure thorough work; and so far as time permits will also receive instruction at the bedside.

In the third year recitations are continued upon regional surgery; the class is instructed in sections in Bellevue Hospital in history taking and methods of surgical examination and diagnosis, two or three hours a week for part of the term; bedside instruction is given daily in several hospitals to small groups, and formal clinics are held in Bellevue, New York, and other hospitals; about twenty didactic lectures will be given by the Professor of Surgery.

In the fourth year the students will receive clinical instruction in small groups in several hospitals and dispensaries upon the general and the special branches—eye, ear, nose and throat, genito-urinary, dermatology, and orthopædics; will attend the clinics and will have a review quiz in preparation for examination.

Conferences at which the students and an instructor will meet for the discussion of specified topics and cases will be held during a portion of the year.

The opportunities for instruction in the special branches are exceptionally ample. There will be several clinical

teachers in each subject, each with hospital and dispensary services, the student will be enabled directly to examine and study cases and will have a certain choice as to the time given to each branch.

The teaching of orthopædics will include instruction in making and fitting special appliances.

Operative surgery will be taught in the fourth year in sections, each member of the class doing all the principal surgical operations upon the cadaver.

OBSTETRICS.

Instruction in obstetrics will be given during the second, third, and fourth years by (1) recitations, (2) illustrative lectures, (3) attendance upon cases of confinement, and (4) manikin practice.

RECITATIONS from a standard text-book will be held by the instructor in obstetrics during the second year upon the physiology and during the third upon the pathology of obstetrics, the latter including obstetric surgery.

These recitations are so scheduled as to cover the entire field of the subject laid out for the college year, are supplementary to the work of the Professor of Obstetrics during each of these two years, and prepare the student for an intelligent appreciation of his subsequent illustrative lectures, attendance upon cases of confinement, and manikin practice.

The ILLUSTRATIVE LECTURES comprise a systematic course running through the third year upon the physiology and pathology of obstetrics.

These lectures are theoretical to a limited extent only, being mainly demonstrative and illustrative in character. To this end ample blackboard space is used, as well as an abundant collection of pelvises, entire, normal, and deformed, sagittal and mesial sections of the same, and in addition a supply of diagrams, charts, carefully selected plaster composition and metal models, wet and dry preparations and instruments.

In conjunction with these lectures additional recitations

are held by the Professor of Obstetrics upon the subject-matter of the college year and for final review.

ATTENDANCE UPON CASES OF CONFINEMENT.—Each candidate for the degree of M.D. is required to present a satisfactory certificate to the effect that he has attended at least six cases of confinement.

The certificates of the regular maternity hospitals are accepted by the Faculty, but the Lying-in Hospital, Second Avenue and 17th Street, New York, is recommended. Students who do not otherwise fulfil the above requirement will be able to do so by taking the regular course at this institution.

During the student's attendance upon his practical maternity course he may be excused from the exercises of the College, but it is strongly recommended that the student fulfil the above requirement in the vacation between the third and fourth years, or during the latter year.

MANIKIN PRACTICE is given to sections of the class during the fourth or senior year, and consists mainly of work by individual students upon the manikins, under the supervision and criticism of an instructor.

In addition, these meetings will be made the occasion for review recitations and "obstetric conferences" upon the illustrative lectures of the third year, and the student's work in his attendance upon confinement cases. By this means each individual student's standing in the department of obstetrics can be readily ascertained.

GYNÆCOLOGY.

Instruction in this department will be given in recitations, clinical demonstrations to the class in sections, and clinics. It is confined to the third and fourth years of the course. The recitations cover the entire subject of gynæcology, and are held throughout the third year one hour a week. The clinical demonstrations are given at Bellevue Hospital and at the dispensary; they are restricted to the fourth year and extend through the entire session. The

clinics are held in the hospital amphitheatre and are intended for members of the third and fourth-year classes.

DISEASES OF CHILDREN.

This course will embrace clinical instruction and section teaching in all the important diseases of infancy and childhood, and the care and feeding of infants.

Instruction in contagious diseases will be given at the bedside in the Willard Parker Hospital.

DISEASES OF THE NERVOUS SYSTEM.

MENTAL DISEASES.

Instruction in diseases of the nervous system will be given by lectures and in section teaching at the bedside in the hospital wards and dispensaries.

The clinics upon mental diseases will be abundantly illustrated by patients from the asylums. Modern psychiatry and the medico-legal aspects of insanity will receive special attention.

SPECIAL BRANCHES.

Instruction in the special branches, ophthalmology, otology, laryngology, insanity, orthopædics, dermatology, venereal and genito-urinary diseases, will be given by the various Clinical Professors and their assistants in the hospital wards and dispensaries with which they are connected, and by lectures.

CURRICULUM IN DETAIL OF THE FOUR YEARS OF THE COURSE.

(SHOWING THE WORK FOR THE INDIVIDUAL
STUDENT.)

(The right is reserved to make such changes in the detail of the curriculum as experience may prove desirable.)

FIRST YEAR.

1. ANATOMY.—One lecture each week on the applied anatomy of the bones and joints following the recitation on these subjects. Recitations, two hours each week. Section demonstration, one hour each week to each section. Dissection, three to five courses of four weeks each, two or more hours daily.

2. CHEMISTRY AND PHYSICS.—Two lectures each week on physics. Recitations, two hours each week on chemistry, and chemical laboratory six hours each week for half the session.

3. PHYSIOLOGY.—Two demonstrations and two hours of recitation each week.

4. HISTOLOGY.—Recitations one hour, and laboratory four hours each week for half the term.

5. BACTERIOLOGY.—Laboratory, two hours twice a week for one month.

6. MATERIA MEDICA.—Laboratory work, four hours each week for the half session.

The class is divided into sections for recitations and laboratory exercises, and the sections are so arranged that the work in the different laboratories is evenly distributed throughout the term. In the course of the recitations

written reviews are held every few weeks, the papers of which are examined by the professors of the respective branches.

SECOND YEAR.

1. ANATOMY.—Surgical and Regional Anatomy and Embryology. Three lectures weekly. Recitation one hour each week. One demonstration lecture weekly. Section demonstrations, one hour each week. Dissection, one to three courses of four weeks each, two or more hours daily.

2. ORGANIC AND PHYSIOLOGICAL CHEMISTRY.—One lecture each week. Recitation once a week.

3. CHEMICAL LABORATORY.—Four hours weekly for half the term in physiological and toxicological chemistry (after the session of 1898-99).

4. PHYSIOLOGY.—Two demonstrations weekly. Recitations one hour each week.

5. MATERIA MEDICA.—Two recitations each week.

6. THERAPEUTICS.—One lecture each week.

7. MEDICINE.—Recitation one hour weekly.

8. SURGERY.—Recitations two hours weekly.

9. OBSTETRICS.—One recitation weekly.

10. PATHOLOGY.—One recitation weekly.

11. PATHOLOGICAL LABORATORY.—Pathological anatomy, six hours each week for half the term.

12. PHYSICAL DIAGNOSIS IN SECTIONS, in the dispensaries and hospitals.

The second-year class is divided into sections for recitations, laboratory work, and physical diagnosis. Written reviews are held in the course of the recitations.

The study of the following branches is completed during the second year and the examinations on them are final.

(1) Anatomy (written and practical); (2) chemistry and physics; (3) materia medica; (4) physiology. (See examinations and graduation, pp. 18 to 20.)

THIRD YEAR.

1. MEDICINE.—Recitations two hours each week. Physical diagnosis in sections in the hospital. General medical diagnosis in sections at the bedside. General medical clinics two hours each week in Bellevue Hospital. Ward visits in small sections with the Professor and Clinical Professors of Medicine in Bellevue and other hospitals. Ten introductory lectures.

2. PATHOLOGY.—Lecture one hour weekly. Autopsies at the morgue in sections.

3. THERAPEUTICS.—Lectures one hour each week; one hour bedside teaching. Recitations one hour weekly.

4. OBSTETRICS.—Two illustrative lectures weekly. One recitation weekly.

5. GYNÆCOLOGY.—One clinic in obstetrics and gynæcology. Recitation one hour each week.

6. SURGERY.—Lectures, twenty hours. General surgical clinics, two each week. Bedside teaching in sections in Bellevue Hospital. Ward work in small sections in Bellevue and the New York hospitals with the Professor and Clinical Professors of Surgery. Recitations on regional surgery, two hours weekly.

7. HYGIENE AND TOXICOLOGY.—Lecture, one hour each week.

8. DISEASES OF CHILDREN.—Clinic, one hour each week. Section work in dispensary.

9. DISEASES OF THE NERVOUS SYSTEM.—Lecture, one hour each week for half the term. Section work.

The recitations in medicine will include the subjects of diseases of children and diseases of the nervous system.

FOURTH YEAR.

1. MEDICINE.—Ward work in the hospitals. General medical clinics twice a week. Exercises in history taking and in clinical microscopy continued. Recitations, review quizzes for State Board and hospital examinations.

Ten lectures on symptomatology. Conferences.

2. SURGERY.—Ward work in the hospitals. General sur-

gical clinics twice a week. Operative surgery in sections. Review quizzes. Conferences.

3. OBSTETRICS.—Regular practical course in a lying-in hospital. Manikin practice. Review quizzes.

4. GYNÆCOLOGY.—Clinics, and section demonstrations.

5. SPECIAL BRANCHES.—Lectures and clinical instruction in small sections in the hospitals and dispensaries in the special branches: eye, ear, nose and throat, orthopædics, skin, insanity, venereal diseases. Post-mortem examinations. Legal medicine lectures. Advanced bacteriology and clinical microscopy (optional).

For those students admitted after two full courses in another accredited medical college, who elect to come up for graduation in 1899, the studies of the year will comprise those of the third and fourth years, except that less time can be given to the special branches, and ward work and review quizzes and conferences will be omitted.

GENERAL INFORMATION, EQUIPMENT, ETC.

The Cornell University Medical College will be conducted in the building of the Loomis Laboratory, opposite Bellevue Hospital, and in the college building in the grounds of Bellevue Hospital, which will be temporarily occupied pending the completion of the extensive new college buildings, plans for the construction of which are now in active development.

LOOMIS LABORATORY (FOUNDED 1886).

It is intended that this laboratory shall not only serve the purposes of undergraduate instruction in such subjects as can be best taught in a laboratory, but also that it shall be available to physicians who may desire to pursue further study or original research in the various departments of laboratory investigation connected with the science of medicine.

The laboratory building is thirty-five by ninety feet in superficial area, five stories in height, thoroughly ventilated, fire-proof, and provided with an elevator, steam heat, high and low-water pressure, gas and electric light.

The first floor is devoted to the laboratories of materia medica and of physics.

The second floor is devoted to the laboratory of chemistry, and is divided into a general laboratory, a laboratory of special research, balance-room, furnace-room, and laboratory of toxicology.

The third floor contains the laboratories of physiology and histology.

The fourth floor is occupied by the laboratories of pathology, photographic rooms, museum, and workshop.

The fifth floor contains the bacteriological laboratories in front, and in the rear a large room used by the classes in histology and pathology.

The position of this general class-room above the surrounding buildings, its equipment with suitable tables, necessary reagents, microscopes, and accessories for class work, provides the best accommodation possible for laboratory instruction. It is abundantly lighted upon three sides, is well ventilated, is fitted with separate lockers for each student, and has a seating capacity for one hundred men.

NEW BUILDINGS.

Plans for new buildings with ample accommodations for clinics, section teaching, lecture-rooms, recitation-rooms, dissection-rooms, etc., are being actively developed.

DISPENSARY.

The Medical College has the privilege of using for instruction a portion of the City Dispensary belonging to Bellevue Hospital, and situated in the college building where upward of 50,000 patients annually receive medical treatment.

HOSPITALS.

The hospital facilities for instruction possessed by the College are unsurpassed by any other college in this country. The Faculty of the Cornell University Medical College is entitled to utilize for teaching purposes the vast quantity and variety of clinical material of ten great city hospitals, namely, the Bellevue, City, Maternity, Gouverneur, Harlem, Almshouse, Work-house, Incurables, Randall's Island, and Fordham. The service of the Society of the Lying-in Hospital, a course of instruction in which or its equivalent is obligatory for the students. In ad-

dition to these hospitals, the large teaching corps of the medical faculty is represented upon the visiting staffs of many other hospitals and dispensaries in the city where the university students are invited to attend clinics. Among these are the New York Hospital, the Presbyterian Hospital, New York Eye and Ear Infirmary, Orthopaedic Dispensary and Hospital, Skin and Cancer Hospital, Hospital for Contagious Diseases.

HOSPITAL APPOINTMENTS.

The students and graduates of the Cornell University Medical College are entitled to compete on equal terms with those of other colleges for positions on the resident staff of Bellevue Hospital, and the other hospitals of the city.

Some of these hospitals are: The City, Harlem, Gouverneur, New York, St. Luke's, Roosevelt, Presbyterian, St. Vincent's, St. Francis, Mount Sinai, German, and Hudson Street hospitals and the hospitals in Brooklyn and Jersey City, Newark, Paterson, etc.

The requirements, the times of examination, and the period of service differ. The details can be learned by application, written or in person, to the superintendents or the secretaries of the medical boards of the various hospitals, or to the Secretary of the Cornell University Medical College, 414 East 26th Street, New York City.

FEES AND EXPENSES.

ALL FEES ARE PAYABLE IN ADVANCE.

FEES FOR THE FOUR YEARS' COURSE.

First Year.

Tuition.....	\$150
Registration.....	5
Dissection ticket.....	10
Laboratory course in chemistry.....	10
Laboratory course in normal histology.....	10
Laboratory course in materia medica.....	10

Second Year.

Tuition	\$150
Registration.....	5
Laboratory course in pathology	10
Dissection ticket.....	10
Laboratory course in physiological chemistry after 1898-99.....	10

Third Year.

Tuition.....	\$150
Registration.....	5
Course in practical obstetrics.....	20

Fourth Year.

Tuition.....	\$150
Registration.....	5
Operative surgery on cadaver, including material.....	15
Graduation fee.	30

Note.—The graduation fee is payable on registering for graduation. The tuition fees for the first two years at Ithaca are identical with those of the same period in New York.

FEES FOR SPECIAL STUDENTS,

The Dissecting ticket may be taken out separately after registration.

Dissection.....	\$10.00
Laboratory course in chemistry.....	15.00
Laboratory course in normal histology.....	15.00
Laboratory course in pathology.....	15.00
Laboratory course in materia medica	15.00
Operative surgery on the cadaver, including material.....	15.00
Clinical Microscopy.....	15.00
Bacteriology	15.00

Fees must be paid according to the foregoing schedule by all matriculates, including those who have already received the degree of M.D. Tickets must be taken out and paid for at the beginning of the session.

BOARD.

Arrangements are made by the clerk so that each matriculate of the College will be furnished with good board, including room rent, at a convenient distance from the college building, at the very low rate of \$5 to \$6 per week. Information as to board may be obtained from the clerk, at his office in the College, or from the Secretary of the Intercollegiate Young Men's Christian Association, 129 Lexington Avenue.

SUGGESTION.

It would be to the advantage of students if they would register a few days in advance of the opening exercises, secure boarding places, and purchase books, so that their studies may not be interrupted in the beginning. The Secretary is in his office every day after September 1, at 2 P.M.

TEXT-BOOKS.

As a rule only the latest editions of text-books should be purchased.

Anatomy—Gerrish; Morris; Gray; Quain; Haynes, "Guide to Dissection"; Treves, "Surgical Applied Anatomy"; Haynes, "Manual of Anatomy."

Physiology—Stewart, Foster, Landois.

Histology—Piersol.

Chemistry—Witthaus, "Manual of Chemistry," fourth edition; Witthaus, Laboratory Course, fourth edition; Ganot's "Physics."

Medicine—Second year, Lockwood; third year, Tyson. Da Costa, "Medical Diagnosis"; or for reference, Loomis-Thompson, "American System of Practical Medicine."

Surgery—Tillmann; "American Text-Book"; Park's Surgery; Stimson's "Fractures and Dislocations"; Stimson's "Operative Surgery."

Genito-Urinary—White and Martin; Hyde and Montgomery.

Obstetrics—Lusk; Winckel.

Gynæcology—Penrose; Kelly; Pozzi.

Materia Medica and Therapeutics—Second year, Curtis, "General Medical Technology"; White's "Materia Medica and Therapeutics"; third year, Hare, "Practical Therapeutics"; Thompson, "Practical Dietetics."

Pathology—Green, "Pathology and Morbid Anatomy"; Ziegler, "Pathological Anatomy and General Pathology."

Dermatology—Crocker; Kaposi.

Ophthalmology—Noyes; Schweinitz; Norris and Olliver.

Otology—Roosa; Politzer; Pomeroy.

Nervous Diseases—Dana; Gower; Dercum.

Diseases of Children—J. Lewis Smith; Goodhart.

Duane's "Student's Medical Dictionary."

For further particulars, address the Secretary, Cornell University Medical College, 414 East 26th Street, New York City.

CORNELL UNIVERSITY

COMPRISES THE FOLLOWING DEPARTMENTS:

- The **GRADUATE DEPARTMENT** (Degrees A.M., Ph.D., etc.)
- The **ACADEMIC DEPARTMENT**, or Department of Arts and Sciences (Degree A.B.)
- The **COLLEGE OF LAW** (Degree LL.B.)
- The **MEDICAL COLLEGE** * (Degree M.D.)
- The **NEW YORK STATE VETERINARY COLLEGE** (Degree D.V.M.)
- The **COLLEGE OF AGRICULTURE** (Degree B.S.A.)
- The **NEW YORK STATE COLLEGE OF FORESTRY** (Degree B.S.F.)
- The **COLLEGE OF ARCHITECTURE** (Degree B.Arch.)
- The **COLLEGE OF CIVIL ENGINEERING** (Degree C.E.)
- The **SIBLEY COLLEGE** of Mechanical Engineering and Mechanic Arts (Degree M.E.)

FOR copies of the University Register and for additional information, apply to

REGISTRAR, CORNELL UNIVERSITY,

ITHACA, N. Y.

* The full four-year course of the CORNELL UNIVERSITY MEDICAL COLLEGE is given in the City of New York, but the first half of it—the work of the first and second years—is also given at Ithaca, where it may be taken by men students, and where alone it can be taken by women students (for whom a home is provided in the Day College for Women). Both men and women students must take the last two years of the course in New York City. Special announcements of the Medical College and information of every kind regarding it will be furnished on application to

SECRETARY, CORNELL UNIVERSITY MEDICAL COLLEGE,

414 East 26th Street, New York City.

C
81u2me
1899/00

CORNELL UNIVERSITY MEDICAL COLLEGE

IN NEW YORK CITY

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

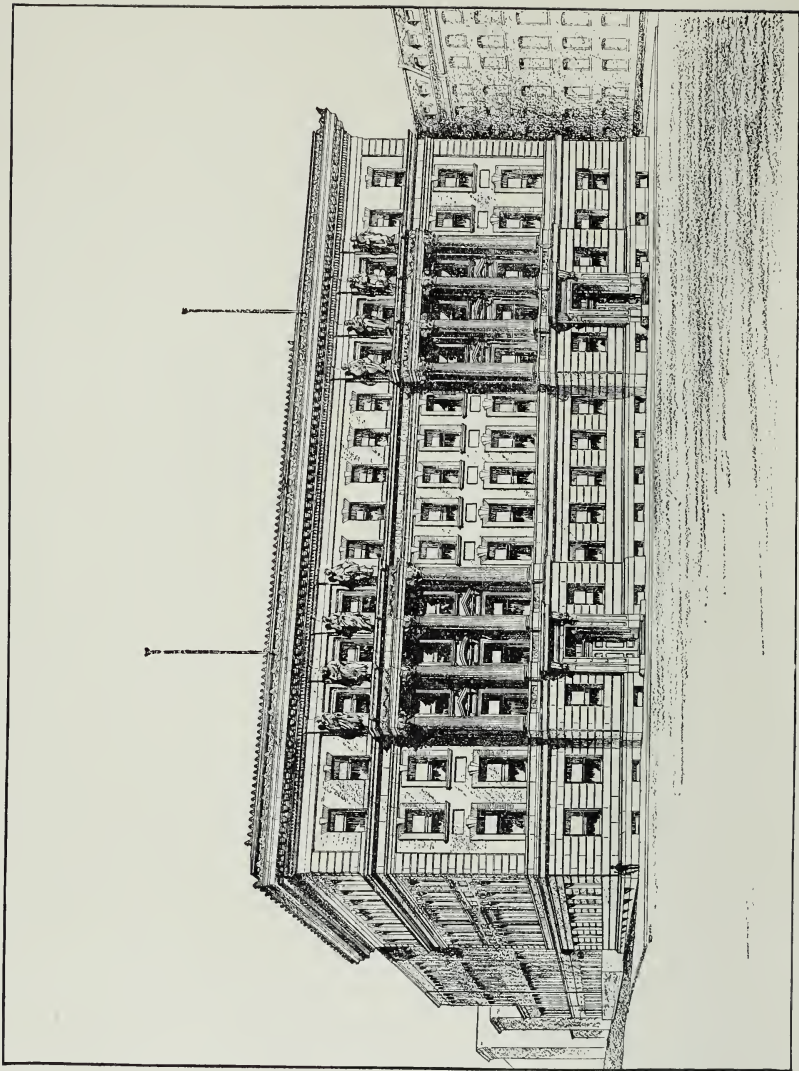
ANNOUNCEMENT

1899-1900

NEW YORK CITY

PUBLISHED BY THE UNIVERSITY





CORNELL UNIVERSITY MEDICAL COLLEGE.
(IN COURSE OF CONSTRUCTION.)

**CORNELL UNIVERSITY
MEDICAL COLLEGE**

IN NEW YORK CITY

ANNOUNCEMENT

1899-1900

**NEW YORK CITY
PUBLISHED BY THE UNIVERSITY**

TRUSTEES OF CORNELL UNIVERSITY.

* Term of office (5 years) expires in 1899, the next group of six in 1900, etc.

¹ B., elected by Board. ² A., elected by Alumni.

ALONZO B. CORNELL	} <i>Ex-Officio</i>	Ithaca.
The PRESIDENT of the University		Ithaca.
His Excellency, the GOVERNOR of N. Y.		Albany.
His Honor, the LIEUTENANT-GOVERNOR		Albany.
The SPEAKER of the Assembly		Albany.
The SUPERINTENDENT of Pub. Instruction		Albany.
The COMMISSIONER of Agriculture		Albany.
The PRESIDENT of the State Agric'l Soc.		
The LIBRARIAN of the Cornell Library		Ithaca.
* ———	(B) ¹	———
* C. SIDNEY SHEPARD, A.B., LL.B.	(B)	New Haven.
* HIRAM W. SIBLEY, Ph.D., LL.B.	(B)	Rochester.
* M. CAREY THOMAS, A.B., Ph.D.	(A) ²	Bryn Mawr, Pa.
* JOHN DEWITT WARNER, Ph.B., LL.B.	(A)	New York.
* STEWART L. WOODFORD, LL.D.	(B)	New York.
ROBERT B. ADAM	(B)	Buffalo.
WILLIAM BALLARD HOYT, Ph.B.	(A)	Buffalo.
HENRY RUBENS ICKELHEIMER, B.L.	(B)	New York.
WALTER CRAIG KERR, B.M.E.	(A)	New York.
HENRY B. LORD	(B)	Ithaca.
ANDREW D. WHITE, LL.D., L.H.D.	(B)	Ithaca.
ANDREW CARNEGIE	(B)	Pittsburg, Pa.
JOSEPH C. HENDRIX	(B)	Brooklyn.
DEFOREST VAN VLEET, B.S.	(A)	Ithaca.
CHARLES GRAY WAGNER, B.S., M.D.	(A)	Binghamton.
HORACE WHITE, M.A.	(B)	New York.
GEORGE R. WILLIAMS, LL.B.	(B)	Ithaca.

SAMUEL D. HALLIDAY, A.B.	.	.	.	(B)	.	Ithaca.
— — —	— — —
ROBERT H. TREMAN, B.M.E.	.	.	.	(B)	.	Ithaca.
GEORGE B. TURNER, B.S.	.	.	.	(A)	.	Auburn.
MYNDERSE VAN CLEEF, B.S.	.	.	.	(B)	.	Ithaca.
FRANK SHERMAN WASHBURN, B.C.E.	.	.	.	(A)	.	New York
ALFRED C. BARNES . . . . .	.	.	.	(B)	.	Brooklyn.
FRANKLIN C. CORNELL . . . . .	.	.	.	(B)	.	Ithaca.
CHARLES S. FRANCIS, B.S. . . . .	.	.	.	(A)	.	Troy.
JARED TREMAN NEWMAN, Ph.B., LL.B.	.	.	.	(A)	.	Ithaca.
WILLIAM H. SAGE, A.B. . . . .	.	.	.	(B)	.	Albany.
ROGER B. WILLIAMS, A.M. . . . .	.	.	.	(B)	.	Ithaca

CALENDAR.

1899-1900.

October 3, Tuesday—College opens.

November 7, Tuesday—Election Day. Legal holiday.

November 23, Thursday, to 9 A.M., November 27, Monday—
Thanksgiving recess.

December 22, Friday, to 9 A.M., January 3, 1900, Wednesday—
Christmas recess.

1900.

February 12, Monday—Lincoln's Birthday. Legal holiday.

February 22, Thursday—Washington's Birthday. Legal holiday.

April 13-14—Good Friday and the Saturday following.

May, first and second week—Examinations for undergraduates.

May 21, Monday—Final examinations for graduation begin.

June 6, Wednesday—Commencement.

FACULTY OF MEDICINE.

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D.,

President.

Ithaca, New York.

WILLIAM M. POLK, M.D., LL.D.,

Dean and Professor of Gynæcology and Obstetrics, Gynæcologist to Bellevue Hospital and Obstetrician to Emergency Lying-In-Hospital.

LEWIS A. STIMSON, M.D.,

Professor of Surgery, Consulting Surgeon to Bellevue Hospital and Surgeon to New York and Hudson Street Hospitals.

RUDOLPH A. WITTHAUS, M.D.,

Professor of Chemistry, Physics and Toxicology.

W. GILMAN THOMPSON, M.D.,

Professor of Medicine, Physician to the Presbyterian and Bellevue Hospitals.

GEORGE WOOLSEY, M.D.,

Professor of Anatomy and Clinical Surgery, Surgeon to Bellevue Hospital.

HENRY P. LOOMIS, M.D.,

Professor of Materia Medica, Therapeutics and Clinical Medicine, Physician to the New York and Bellevue Hospitals.

J. CLIFTON EDGAR, M.D.,

Professor of Obstetrics and Clinical Midwifery, Physician to the Mothers' and Babies' Hospital and to the Maternity Hospital.

AUSTIN FLINT, M.D., LL.D.,

Professor of Physiology.

FREDERIC S. DENNIS, M.D., F.R.C.S., Eng.

Professor of Clinical Surgery, Surgeon to Bellevue and St. Vincent Hospitals.

FREDERICK W. GWYER, M.D.,

Professor of Operative and Clinical Surgery, Surgeon to Bellevue Hospital.

IRVING S. HAYNES, M.D.,

Professor of Practical Anatomy, Surgeon to the Harlem Hospital.

JAMES EWING, M.D.,

Professor of Pathology.

CLINICAL PROFESSORS.

JOSEPH E. WINTERS, M.D.,

Professor of Diseases of Children, Physician to Willard Parker Hospital.

CHARLES STEDMAN BULL, M.D.,

Professor of Ophthalmology, Surgeon to New York Eye and Ear Infirmary.

NEWTON M. SHAFFER, M.D.,

Professor of Orthopædic Surgery.

GORHAM BACON, M.D.,

Professor of Otology, Aural Surgeon to New York Eye and Ear Infirmary.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System, Physician to Bellevue Hospital, Neurologist to the Montefiore Home.

SAMUEL ALEXANDER, M.D.,

Professor of Diseases of the Genito-Urinary System, Surgeon to Bellevue Hospital.

GEORGE THOMAS ELLIOT, M.D.,

Professor of Dermatology, Assistant Physician to the Skin and Cancer Hospital.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,

Professor of Mental Diseases, Consulting Physician Manhattan State Hospital for the Insane.

CHARLES H. KNIGHT, M.D.,

Professor of Laryngology, Surgeon to the Manhattan Eye and Ear Hospital, Throat Department.

ALEXANDER LAMBERT, M.D.,

Professor of Clinical Medicine, Instructor in Physical Diagnosis, Physician to Bellevue Hospital.

FRANCIS W. MURRAY, M.D.,

Professor of Clinical Surgery, Surgeon to St. Luke's and New York Hospitals.

CHARLES E. NAMMACK, M.D.,

Professor of Clinical Medicine, Physician to Bellevue Hospital.

FREDERICK KAMMERER, M.D.,

Professor of Clinical Surgery, Surgeon to German and St. Francis's Hospitals.

IVIN SICKELS, M.D.,

Assistant Professor of Chemistry and Physics.

INSTRUCTORS.

PERCIVAL R. BOLTON, M.D.,

Instructor in Surgery, Assistant Surgeon to Bellevue Hospital.

BERTRAM H. BUXTON, M.D.,

Instructor in Bacteriology.

DEVER S. BYARD, M.D.,

Instructor in Medicine.

CHARLES N. BANCKER CAMAC, M.D.,

Instructor in Clinical Microscopy.

WARREN COLEMAN, M.D.,

*Instructor in Materia Medica and Therapeutics and in Clinical Medicine,
Physician to City Hospital.*

LEWIS A. CONNER, M.D.,

*Instructor in Medicine, Attending Physician to the Hudson Street Hospital,
Assistant Pathologist to the New York Hospital.*

JEREMIAH S. FERGUSON, M.D.,

Instructor in Histology.

FRANK S. FIELDER, M.D.,

Assistant Demonstrator of Anatomy.

GEORGE D. HAMLEN, M.D.,

Instructor in Gynæcology and Obstetrics.

JOHN A. HARTWELL, M.D.,

Instructor in Physiology.

JAMES C. JOHNSTON, M.D.,

Assistant Instructor in Pathology.

EDWARD L. KEYES, JR., M.D.,

Assistant Demonstrator of Anatomy.

GUY D. LOMBARD, M.D.,

Assistant Instructor in Histology.

CHARLES NORRIS, M.D.,

Instructor in Pathology of Infectious Diseases.

- HENRY S. PASCAL, M.D.,
Assistant Instructor in Histology.
- CHARLES R. L. PUTNAM, M.D.,
Instructor in Operative Surgery.
- LEWIS W. RIGGS, Ph.D.,
Instructor in Chemistry and Physics.
- JOHN ROGERS, JR., M.D.,
Instructor in Surgery, Assistant Demonstrator of Anatomy.
- EDMUND PENDLETON SHELBY, M.D.,
Instructor in Materia Medica and Therapeutics.
- OTTO H. SHULTZE, M.D.,
Instructor in Pathology.
- WILLIAM F. STONE, M.D.,
Instructor in Anatomy and Assistant Demonstrator of Anatomy.
- BENJAMIN T. TILTON, M.D.,
Instructor in Surgery, Surgeon to Colored Home.
- GEORGE GRAY WARD, JR., M.D.,
Instructor in Obstetrics.

CLINICAL INSTRUCTORS.

JOHN ASPELL, M.D.,

Clinical Instructor in Gynæcology, Visiting Gynæcologist to St. Vincent's Hospital.

CHARLES C. BARROWS, M.D.,

Clinical Instructor in Gynæcology, Assistant Gynæcologist to Bellevue Hospital.

FOLLEN CABOT, M.D.,

Clinical Instructor in Diseases of the Genito-Urinary System.

EARLE CONNOR, M.D.,

Clinical Instructor in Otology.

COLEMAN WARD CUTLER, M.D.,

Clinical Instructor in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary, Attending Ophthalmic Surgeon to St. Luke's Hospital.

MARTIN J. ECHEVERRIA, M.D.,

Clinical Instructor in Diseases of the Genito-Urinary System.

P. HENRY FITZHUGH, M.D.,

Clinical Instructor in Orthopædics, Assistant Surgeon New York Orthopædic Dispensary and Hospital.

JOSEPH FRAENKEL, M.D.,

Clinical Instructor in Diseases of the Nervous System.

WILLIAM TRAVIS GIBB, M.D.,

Clinical Instructor in Gynæcology.

ARCHIBALD E. ISAACS, M.D.,

Clinical Instructor in Surgery.

THURSTON G. LUSK, M.D.,

Clinical Instructor in Dermatology, Dermatologist to the Out-door Department of Roosevelt Hospital.

JAMES E. NEWCOMB, M.D.,

Clinical Instructor in Laryngology.

WILLIAM SHANNON, M.D.,

Clinical Instructor in Diseases of Children.

FRANKLIN M. STEVENS, M.D.,

Clinical Instructor in Otology.

GEORGE P. SHEARS, M.D.,

Clinical Instructor in Obstetrics, Assisting Attending Physician Mothers' and Babies' Hospital

GEORGE K. SWINBURNE, M.D.,

Clinical Instructor in Diseases of the Genito-Urinary System.

HENRY H. WHITEHOUSE, M.D.,

Clinical Instructor in Dermatology, Assistant Surgeon to the New York Skin and Cancer Hospital, Dermatologist to Demilt Dispensary.

JOHN MCGAW WOODBURY, M.D., M.R.C.S.,

Instructor in Orthopædic Surgery.

CLINICAL ASSISTANTS.

- ROBERT STAUNTON ADAMS,
Clinical Assistant in Diseases of Children, Attending Physician to Children's Class, Demilt Dispensary.
- HENRY M. ARCHER, M.D.,
Clinical Assistant in Surgery.
- RUSSELL BELLAMY, M.D.,
Clinical Assistant in Medicine and Therapeutics.
- W. BEDFORD BROWN, M.D.,
Clinical Assistant in Dermatology.
- WILLIS S. COOKE, M.D.,
Clinical Assistant in Diseases of Children.
- ROBERT M. DALEY, M.D.,
Clinical Assistant in Diseases of the Nervous System.
- GEORGE SLOAN DIXON, M.D.,
Clinical Assistant in Otology.
- WALTER A. DUNCKEL, M.D.,
Clinical Assistant in Diseases of Children.
- JOSEPH A. KENEFICK, M.D.,
Clinical Assistant in Laryngology.
- L. J. J. MUSKENS, M.D.,
Demonstrator of Pathology of the Nervous System.
- LOUIS NEUMANN, M.D.,
Assistant in Physiology.
- ROBERT G. REESE, M.D.,
Clinical Assistant in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary.
- M. SCHLAPP, M.D.,
Clinical Assistant in Diseases of the Nervous System.
- GEORGE DE FOREST SMITH, M.D.,
Clinical Assistant in Mental Diseases.
- WILLIAM F. STONE, M.D.,
Clinical Assistant in Surgery.

STAFF OF INSTRUCTION AT ITHACA.

GEORGE CHAPMAN CALDWELL, B.S., Ph.D.,
Professor of Chemistry.

BURT GREEN WILDER, B.S., M.D.,
Professor of Physiology.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D.,
Professor of Physics.

SIMON HENRY GAGE, B.S.,
Professor of Microscopy, Histology and Embryology.

VERNUS ALVA MOORE, B.S., M.D.,
Professor of Pathology and Bacteriology.

WILLIAM RIDGELY ORNDORFF, A.B., Ph.D.,
Assistant Professor of Organic Chemistry.

JOSEPH ELLIS TREVOR, Ph.D.,
Assistant Professor of Chemistry.

PIERRE AUGUSTINE FISH, B.S., D.Sc., D.V.S.,
Assistant Professor of Physiology and Materia Medica.

LUZERNE COVILLE, B.S., M.D.,
Lecturer and Demonstrator in Anatomy.

EMILE MONNIN CHAMOT, B.S., Ph.D.,
Instructor in Toxicological Chemistry.

—— ———, M.D.,
Lecturer in Surgery and Obstetrics.

—— ———, M.D.,
Lecturer in Therapeutics, Medicine and Physical Diagnosis.

FREDERICK LAWRENCE KORTRIGHT, D.Sc.,
Instructor in Chemistry.

BENJAMIN FREEMAN KINGSBURY, A.B., Ph.D.,
Assistant Professor in Microscopy, Histology and Embryology.

- RAYMOND CLINTON REED, Ph.B.,
Instructor in Pathology and Bacteriology.
- CHARLES MELLIN MIX, A.B.,
Instructor in Anatomy.
- FLOYD ROBINS WRIGHT, A.B.,
Instructor in Bacteriology.
- AGNES MARY CLAYPOLE, Ph.D.,
Assistant in Microscopy, Histology and Embryology.
- BURTON DORR MYERS, Ph.B.,
Assistant in Materia Medica.
- WILLIAM FAIRFIELD MERCER, Ph.B.,
Assistant in Microscopy, Histology and Embryology.
- EDITH JANE CLAYPOLE, Ph.B., M.S.,
Assistant in Physiology.
- JOHN EDGAR TEEPLE, B.S.,
Assistant in Physiological Chemistry.
- CHARLES F. FLOCKEN,
Assistant in Microscopy, Histology and Embryology.
- SAMUEL HOWARD BURNETT, A.B., M.S.,
Assistant in Pathology.
- ROY MANDEVILLE VOSE,
Assistant Demonstrator in Physiology.

STANDING COMMITTEES.

EXECUTIVE COMMITTEE.

DR. WILLIAM M. POLK, *Dean.*

DR. LEWIS A. STIMSON.

DR. W. GILMAN THOMPSON

CATALOGUE COMMITTEE.

DR. HENRY P. LOOMIS, *Chairman.*

DR. IRVING S. HAYNES.

SCHEDULE COMMITTEE.

DR. RUDOLPH A. WITTHAUS, *Chairman.*

DR. FREDERICK W. GWYER.

J. THORN WILLSON,

Clerk of the College,

East 26th Street.

GENERAL STATEMENT.

THE Medical Department of Cornell University was established in 1898. This undertaking, which had been contemplated by the Trustees for several years, was made possible by the gift to the University of a large and fully equipped building specially planned for medical instruction, and by the bestowal of a sufficient endowment for the maintenance of a Medical School.

Pending the completion of this structure instruction has been given in the Loomis Laboratory, and in a building on the grounds of Bellevue Hospital, which for many years has been used for teaching medicine. Arrangements have been made to continue the teaching in these quarters until the new building is ready for occupation, the latter part of the present year.

In order that the profession may be given some idea of the facilities for teaching which the School offers, an outline of this building is presented here.

Five stories high, it fronts on First Avenue, faces Bellevue Hospital, covering all the space bounded by First Avenue between 27th and 28th Streets, extending back 100 feet, and affords a floor area of about 200 by 100 feet (light and air space excepted) for each story.

It comprises a Medical School and a Dispensary, each with a main entrance on First Avenue and is arranged as follows :

A well-lighted and ventilated basement contains the engines boilers, dynamos and ventilating machinery ; the refrigerating and cold-storage plant, a large room with lockers, another for bicycles. Store-rooms, including one for drugs, four rooms, including a small theatre and a workshop, for orthopædics, toilet rooms and lavatories and several rooms for the janitor of the building, are also found here.

The principal entrances to the building open from First Avenue

into vestibules on the First Floor, one leading to the main hall of the School, the other to the general waiting-room of the Dispensary, between which the large Amphitheatre is situated.

Between the entrances, the rooms of the Children's Department, which include an isolating room and a small theatre, are placed ; while around the waiting-room of the Dispensary are located the office for distributing patients, the Apothecary's shop, rooms for the Departments of Surgery and Medicine, waiting- and dressing-rooms, toilet rooms and rooms for the X-ray apparatus.

Grouped around the main hall of the School on this floor are the offices of the Dean, the Secretary and the Registrar, a reading-room, a cloak and toilet room for women and a room for recitations.

Upon the Second Floor, the same general arrangement prevails. On the side of the Dispensary there is a general waiting-room, surrounded by rooms assigned respectively to the Departments of Genito-Urinary Diseases, Diseases of the Nervous System, of the Skin and of the Ear, while covering the space at the middle front of the building are the rooms belonging to the Departments of the Eye and the Throat, with a series of twenty dark stalls for the simultaneous examination of as many patients by as many students. Small waiting- and dressing-rooms, and lavatories for the convenience of the patients are also found on this floor. The upper part of the large Amphitheatre, extending upwards from the floor below, occupies the centre of the rear half of this floor. The remainder of the floor is given up to the School. Here is found a hall, around which are grouped recitation rooms and laboratories for Clinical Microscopy. These laboratories have convenient access from the Dispensary, permitting ready coöperation in the work carried on there ; a separate room is also provided for special and advanced work in this Department.

The Third Floor of the building is given up to teaching space, excepting an adequate area upon the "Dispensary side" of the building, which is assigned to the Departments of Gynæcology and Obstetrics. This comprises a small theatre, examining, waiting, dressing and toilet rooms, manikin and two

recitation rooms. The remainder of this floor is occupied by two Amphitheatres (each having a seating capacity of about 175 students), one for Anatomy and Physiology, the other for Chemistry; attached to each are Preparation and Research Rooms. The Chemical Laboratories also occupy this floor, including the main Laboratory, the Laboratory for Physiological Chemistry, rooms for apparatus etc. and a Library of Chemistry.

There is the usual hall and corridor space with toilet rooms and lavatories, the latter, upon this floor, being reserved for women.

The Fourth Floor is occupied by the upper part of the two Amphitheatres which project upwards from the floor below. The Department of Bacteriology is also placed on this floor, ample facilities being provided, not only for the class work and Demonstrations, but for Special and Advanced Courses and Investigations. The Anatomical Museum with adjoining rooms for the preparation and mounting of specimens and the Materia Medica Laboratory occupy a suitable proportion of this floor. The remainder is divided into rooms for recitation classes, leaving, however, a large floor area which is held in reserve for the future needs of the School.

The Fifth Floor is devoted to the Department of Practical Anatomy. There is the main Dissecting Room, 160 x 55 ft.; also a large room, 40 x 50 ft., which is set apart for advanced undergraduates and post-graduates. This room can be cooled by the refrigerating plant in such a manner as to permit the pursuit of Practical Anatomy with as much comfort in summer as in winter.

This floor presents such facilities as lockers for 300 students, a small Demonstration Theatre, with prosecting and cold-storage room attached, private Dissecting Rooms, a Bone Room, a Library Room, a Reading and Study Room, and a commodious room for instruction in Operative Surgery.

The Department of Photography, the Animal House and a room for the preparation of bones are placed in a half-story at the top and rear of the building.

There are two main staircases, one for each department of the building, three passenger elevators, one being in the Dispensary, and a freight elevator.

The building itself is fire-proof, being constructed of steel, stone, brick, marble and tile. Special attention has been paid to the problems of refrigeration, lighting, heating and ventilation, so that every part of the structure can be easily kept at all times in an agreeable and sanitary condition.

In addition to this structure, the Loomis Laboratory building will also be employed in the manner set forth in the schedule.

REQUIREMENTS FOR ADMISSION.

Students must furnish satisfactory evidence of good moral character for admission, and must conform to the rules and regulations of the New York State Board of Regents. No entrance examination other than that of the Regents is required.

While not necessary, it is highly advantageous for students entering upon the study of medicine, to have had a college or university training in the liberal arts and sciences; and to this end it has been arranged that students in the Academic Department of Cornell University may elect in the Medical College certain studies, thereby materially shortening the time required for taking both the A.B. and M.D. degrees.

REGENTS' ENTRANCE EXAMINATIONS AND CERTIFICATES.

The following requirements for admission to candidacy for a degree in *any medical college in New York State* were established by laws passed by the Legislature, to take effect March 21, 1896.

MEDICAL STUDENTS' CERTIFICATE.

Each student who matriculates with the intention of becoming a candidate for the degree of doctor in medicine, whether he

comes to New York to begin or continue the study of medicine, must file with the Dean of the College a medical student's certificate issued by the Regents of the University of the State of New York.

This certificate is granted according to the following extract of the Laws of 1896, ch. iii. :

To provide for the preliminary education of medical students :

The degree of bachelor or doctor of medicine shall not be conferred in this State before the candidate has filed with the institution conferring it the certificate of the Regents that before beginning the first annual medical course counted toward the degree (unless matriculated conditionally as hereinafter specified), he had either graduated from a registered college or satisfactorily completed a full course in a registered academy or high school ; or had a preliminary education considered and accepted by the Regents as fully equivalent ; or held a Regents' medical student certificate, granted before this act took effect ; or had passed Regents' examinations as hereinafter provided. A medical school may matriculate conditionally a student deficient in not more than one year's academic work or twelve counts of the preliminary education requirements, provided the name and deficiency of each student so matriculated be filed at the Regents' office within three months after matriculation, and that the deficiency be made up before the student begins the second annual medical course counted toward the degree. Students who had matriculated in a New York medical school before June 5, 1890, and students who had matriculated in a New York medical school before May 13, 1895, as having entered before June 5, 1890, on the prescribed three years' study of medicine, shall be exempt from this preliminary-education requirement.

A medical-student-certificate may be earned without notice to the Regents of the conditional matriculation either before the student begins the second annual medical course counted toward the degree or two years before the date of the degree for matriculants in any registered medical school, in the four cases following :

1. For matriculants prior to May 9, 1893, for any twenty counts, allowing ten for the preliminaries, not including reading and writing.
2. For matriculants prior to May 13, 1895, for arithmetic, elementary English, geography, spelling, United States history, English composition and physics, or any fifty counts, allowing fourteen for the preliminaries.
3. For matriculants prior to January 1, 1896, for any twelve academic counts.
4. For matriculants prior to January 1, 1897, for any twenty-four academic counts.

But all matriculants, after January 1, 1897, must secure forty-eight academic

counts, or their full equivalent, before beginning the first annual medical course counted toward the degree, unless admitted conditionally, as hereinbefore specified, when the deficiency must be made up before the student begins the second annual medical course counted toward the degree.

This act shall take effect March 21, 1896, except that the increase in the required course of medical study from three to four years shall take effect January 1, 1898, and shall not apply to students who matriculated before that date and who receive the degree of doctor of medicine before January 1, 1902.

NOTES ON THE LAW.

1. For matriculants prior to January 1, 1897, medical schools are not required to furnish notice of conditional matriculation, and such students may make up the full requirement at any time before beginning the second annual course counted toward the degree, or two years before the date of the degree.

All matriculants after January 1, 1897, must secure forty-eight academic counts or their full equivalent before beginning the first annual course counted toward the degree, unless admitted conditionally, in which case the deficiency is not to exceed twelve academic counts and must be made up before the student begins the second annual course counted toward the degree.

2. The Regents will accept as fully equivalent to the required academic course any one of the following :

(a) A certificate of having successfully completed at least one full year's course of study in the collegiate department of any college or university registered by the Regents as maintaining a satisfactory standard.

Certificates should be issued in due form by the president, dean or principal of the institution ; and should be signed under seal or acknowledged before a notary, unless the institution is in the University of the State of New York or the signature of the officer issuing is well known in the Regents' office.

(b) A certificate of having passed in a registered institution examinations equivalent to the full collegiate course of the freshman year or to a completed academic course.

Three full academic years of satisfactory work may be accepted as a high-school course till August 1, 1896, when four full academic years will be required.

(c) Regents' pass-cards for any forty-eight academic counts or any Regents' diploma.

(d) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(e) A certificate of successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(f) The bachelor's degree in arts or science, or substantial equivalents from any registered institution in France or Spain.

(g) Any credential from a registered institution or from the government in any foreign state or country which represents the completion of a course of study equivalent to graduation from a registered New York high-school or academy or from a registered Prussian gymnasium.

3. March 22, 1898, the Regents approved the following modifications in requirements for medical student certificates :

(a) **Partial Equivalents.** Evidence of completion in a registered school of one or more years of satisfactory high-school work, and Regents' examinations in subjects representing the balance of the required four-year course (any 12, 24, or 36 additional counts).

(b) **Cumulative Credit.** Regents' examinations in the second or third year of any language course will be accepted as including the preceding years in those courses.

(c) **Date of Certificate.** Candidates unable to offer certificates of the required academic work in a registered institution may present evidence to the Regents that they had the required preliminary education before beginning the second course counted toward the degree, and may on passing Regents' examinations receive their certificates as of the date when the preliminary work was completed.

4. Other equivalent credentials from other States and countries besides those specified in the law, which may be accepted by the Regents in place of an examination, may be ascertained by written application to Examination Department, University of the State of New York, Albany, N. Y.

5. Any student who has matriculated under the legal requirements in regard to Regents' examinations, existing at the time of matriculation, will not require another certificate whenever he may be graduated.

6. If students unable to offer equivalents come from out of the State, they may enter the second course counted toward the degree, provided that at the preceding June or September examination they meet the preliminary requirement.

Medical students' certificates issued on "equivalents" without examination, may be obtained at any time before the degree of M.D. is conferred, provided that the course of study for which the certificate is issued was completed within the prescribed time.

EXAMINATIONS UNDER THE ACT.

Students who do not obtain a medical students' certificate without examination must pass an examination on the subjects required by the Regents. These examinations are held entirely under the charge of the Regents in New York, and in many other places throughout the State, on the following dates :

CALENDAR OF REGENTS' EXAMINATIONS.

YEAR.	JAN.	APRIL.	MAY.	JUNE.	SEPT.
1899.....	24-27	4-7	16-19	13-16	26-29
1900.....	23-26	—	22-25	19-22	25-28

NOTE.—September examinations will be held in New York, Albany, Syracuse and Buffalo, for law and medical students only. The other examinations are held in New York and in numerous academies and high schools throughout the State for professional and academic students.

EXTRACTS FROM REGENTS' RULES.

Order of Studies.—There is no restriction in the order in which studies may be taken. Advanced students who have come from other States, or who, for other reasons, have not passed in elementary subjects, may take them at any time: *e. g.*, arithmetic after algebra or geometry; English composition after rhetoric, etc.

Time Limit.—There is no limit of time, but all credentials issued by the University are good till cancelled for cause. Studies necessary to obtain any credential may be passed at different examinations.

Seventy-five per cent. of correct answers is required in all subjects.

Answer papers will be reviewed in the Regents' office, and all papers below standard will be returned to the candidates. For those accepted, pass-cards will be issued.

Pass-Cards.—A Regents' pass-card is not limited in time; therefore it is not necessary to pass any Regents' examination a second time.

Medical Student Certificate.—When all requirements are fulfilled, the Regents grant a medical student certificate.

On receiving this certificate, the candidate must send it to the secretary or recording officer of the university or college at which he intends to study medicine.

N. B.—*Candidates for medical students' examination should send notice at least ten days in advance, stating at what time and in what studies they wish to be examined,* that required desk-room may be provided at the most convenient place.

Candidates who fail to send this advance notice will be admitted only so far as there are unoccupied seats.

MEDICAL STUDENTS' CERTIFICATES WITHOUT EXAMINATIONS.

Students who may be entitled to the medical students' certificate on equivalents (see notes on the law, 2, 3, 4, 5 and 6) are advised to present or forward

their credentials to the Secretary of the College, who will send them to the Regents for examination and approval. They will be returned as soon as verified, and, if accepted, the proper certificate will be sent with them. The Secretary of the College will furnish, on application, blank forms of collegiate, academic, or high-school certificates.

Other equivalent credentials from foreign countries or from other States may be accepted by the Regents at their discretion.

The Secretary will furnish full information on request.

DIRECTIONS FOR OBTAINING A REGENTS' MEDICAL STUDENT'S CERTIFICATE.

1. Give the full name of the applicant, the exact name of the institution and of the department attended, an accurate description of the course pursued using the same terms that are given in the official announcement, circular or catalogue of the institution.

Send an official announcement, circular or catalogue of the institution, showing :

(a) Requirements for admission, *i. e.*, subjects and years given to their completion.

(b) Requirements for graduation in each course, including subjects pursued and time devoted to each.

MELVIL DEWEY, *Secretary.*

JAMES RUSSELL PARSONS, JR.,

Director of Examinations.

Regents' Office, Albany, N. Y.,

15 April, 1898.

REGISTRATION AND MATRICULATION.

Students on entering the College will be required to register and pay the registration fee of \$5. The payment of this fee is required only once. They will receive a receipt for this fee, which will be exchanged for a certificate of full or conditional matriculation when they shall have complied with the Regents' requirements for such matriculation ; but students who have already been matriculated at a medical college in the State of New York, according to the Regents' requirements, and those who already hold medical students' certificates, will be matriculated immediately on registration.

THE ADMISSION OF STUDENTS FROM OTHER ACCREDITED MEDICAL COLLEGES.

(1) ADMISSION TO ADVANCED STANDING IN THE FIRST YEAR.

Graduates of Cornell, Yale, Harvard, Princeton, University of Pennsylvania, Johns Hopkins, Columbia, University of Michigan and other accredited universities, who have taken either a preparatory medical course or special work in organic and inorganic chemistry, physics or physiology, will be allowed credit for the work which they have done, and may be excused from the recitations upon these subjects, and from the exercises of the chemical laboratory in the first year, provided they pass examinations before the professors of these departments, and provided they give to dissection and advanced laboratory work, in various departments, a full equivalent in hours to the subject they may have passed by examination.

Students who have had training in microscopical technique or in histology will be given advanced work in the histological laboratory.

Students who have already attended courses in other medical colleges may be admitted to advanced standing in the four years' course of the Cornell University Medical College under the following conditions :

(2) ADMISSION TO THE SECOND YEAR.

Students from other accredited medical colleges desiring to enter the second year of the course must present certificates of attendance in laboratory courses of histology, chemistry and materia medica corresponding in extent with those described on pages 67 to 68, or they must pass examinations in these branches. They must also show certificates of one year's work in dissection. There will be no other entrance examinations.

(3) ADMISSION TO THE THIRD YEAR.

Students coming from other accredited medical colleges desiring to enter the third year must pass final examinations in the

subjects of anatomy, physiology, chemistry and physics and materia medica and the general principles of therapeutics, medicine, surgery, obstetrics, physical diagnosis, and must present satisfactory certificates of laboratory instruction in histology, chemistry, pathology and in dissection. In lieu of a certificate of attendance on any laboratory course of the second year students will be obliged to take the course during their third year.

(4) ADMISSION TO THE FOURTH YEAR.

Students coming from other accredited medical colleges, in which they have already passed three years of study, will be admitted to the fourth year, after presenting satisfactory certificates for all laboratory instruction in histology, chemistry, pathology and dissection, and after passing the final examinations in anatomy, physiology, chemistry, materia medica, hygiene and toxicology, and examinations in medicine, surgery and obstetrics sufficient to show that they are capable of profiting by the clinical work of the fourth year. In lieu of certificates of attendance on any laboratory course included in the curriculum of this College, students will be obliged to take the course during the year.

Examinations required of students coming from other colleges are held at the commencement of the session, or at the regular examinations held at the close of the preceding college year, or at the end of the session of the summer school.

(5) HOLDERS OF SPECIAL DEGREES.

Graduates of pharmacy or of dental or veterinary or other professional schools, who can present satisfactory evidence of having completed any course of study required in any year by this College, may upon passing a satisfactory examination be excused from attendance upon instruction in that subject, provided they take equivalent additional work in other branches.

(6) ADMISSION TO SPECIAL DEGREES.

Graduates in medicine, or students who desire to pursue a special course without graduation, are admitted to registration as

special students without Regents' or other preliminary examination. Such special courses do not count in any way as part of the four years' course required of candidates for the degree of doctor in medicine. Further information regarding such courses fees etc., may be obtained by addressing the Secretary of the Cornell University Medical College, East Twenty-sixth Street.

NEW YORK STATE SCHOLARSHIPS.

Under the law of the State the Superintendent of Public Instruction is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly Districts in the State. These scholarships entitle the holder to free tuition for four years in any department of Cornell University. They are awarded on examination to candidates from the general assembly districts "in consideration of their superior ability and as a reward for superior scholarship in the academies and public schools of this State."

For particulars in regard to these scholarships, application should be made to the Superintendent of Public Instruction at Albany.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS.

Pursuant to the action of the Trustees, at a special examination held at Ithaca at the beginning of the freshman year, eighteen scholarships of the annual value of \$200 each will be annually thrown open to competition for all members of the freshman class who are registered in courses leading to first degree.

Students of high ability from the State of New York will have the additional advantage of being able to secure State scholarships, as there is nothing in the University statutes to prevent a student from holding both a State scholarship and a University scholarship.

These scholarships will be given to those who on examination shall average the highest in any three of the following groups, always including group (a). Previous to entering this competitive

examination, however, candidates are required to pass satisfactorily the regular entrance examination in English at the University. *School certificates, Regents' diplomas and normal school diplomas* are not accepted in place of this English examination.

- (a) Arithmetic, and algebra through quadratic equations.
- (b) Plane and solid geometry.
- (c) Greek.
- (d) Latin.
- (e) French.
- (f) German.

For further information in regard to the scholarships see the Registrar of Cornell University.

GENERAL PLAN OF INSTRUCTION.

THE first two years of the Medical Course are devoted mainly to the study of the fundamental medical branches, anatomy, chemistry and physics, physiology and materia medica ; and to practical work in the laboratories and to dissection. By the end of the second year the student will have completed the study of these subjects and will have passed his final examination in them. Upon the basis of thorough training in the fundamental medical branches pursued during the first two years of the course, the student is well fitted to undertake the study of the advanced branches. He will then devote the last two years to medicine, surgery, obstetrics, gynæcology, to the treatment of disease and to the various specialties, and more particularly to the study of these branches in the clinical laboratories, in the dispensaries and in the wards of the hospitals.

The Faculty believe that the old method of teaching the practical branches by didactic lectures has resulted in waste of the student's time and is without corresponding advantage ; following this idea, the lectures have been curtailed as far as possible, and the time formerly occupied by lectures is now given to classroom, clinical and bedside instruction.

To take the place of the lectures and to enable the student to acquire an accurate and thorough knowledge of the practical side of medicine and to profit by clinical instruction, systematic recitations have been established.

These recitations commence in the second year and are continued throughout the four years' course. They are conducted by a large corps of instructors, and are based upon the subject matter of prescribed text-books.

During the third year the general principles of medicine, surgery, therapeutics and obstetrics are studied and clinical instruc-

tion is given in these branches. A course in physical diagnosis and practical therapeutics is also given.

The study of certain special branches, such as hygiene and toxicology, diseases of children and clinical neurology, is also begun.

During the fourth year the instruction is almost entirely clinical, the classes being divided into sections for bedside instruction in the wards of the various hospitals and for work in the dispensaries.

Clinical microscopy is studied in connection with the medical cases ; operative surgery is taught to small classes ; practical therapeutics is taught at the bedside and gynæcology in the hospital wards. Students attend cases of labor in connection with their service at the Mothers' and Babies' Hospital both at the hospital and under proper supervision at the homes of the patients. The various special branches of medicine and surgery are studied clinically, viz. : dermatology, genito-urinary diseases, laryngology and rhinology, ophthalmology and otology, orthopædics, diseases of children and insanity. The small sections into which the classes are divided afford abundant opportunities of practical work for each student.

The association of women with men in the various didactic, clinical and laboratory exercises of the third and fourth years has given perfect satisfaction to all concerned. The theoretical objections to their presence with men have not been found in practice.

The courses for the entire four years are given in New York, and the first two years are duplicated at Ithaca. Men students may take half in Ithaca and the other half in New York, or the entire course in New York ; women students must take the first two years of the course in Ithaca (where a home is provided for them in the Sage College for Women), and the last two years in New York.

LABORATORIES.

PENDING the completion of the new buildings, all the laboratory instruction will be given in the Loomis Laboratory, opposite the present College building. Here ample facilities are furnished for laboratory instruction in chemistry, materia medica, pathology, histology and bacteriology.

LOOMIS LABORATORY. (FOUNDED 1886.)

It is intended that this laboratory shall not only serve the purposes of undergraduate instruction in such subjects as can be best taught in a laboratory, but also that it shall be available to graduates in medicine who may desire to pursue further study or original research in the various departments of laboratory investigation.

The building is five stories in height, fireproof, with concrete floors, thoroughly ventilated, and provided with an elevator, steam heat, gas and an electric-light plant. It is lighted by windows on either side.

1. Laboratories of Materia Medica and Physics occupy the first floor. The collection of drugs is complete, and includes mounted specimens of most of the botanical plants used as medicines. There is a large collection of apparatus for the practical and experimental study of pharmacology.

In the physical laboratory the apparatus is very complete, and is used in the demonstration of the lectures on physics, and is placed at the disposal of advanced students.

2. The Laboratory of Chemistry occupies the second floor and is divided into a general laboratory, a laboratory of special research, laboratory of toxicology, balance room, furnace room and private rooms. The general laboratory has tables for fifty stu-

dents, each furnished with running water, gas, electric lights and a special ventilating plant.

3. The Physiological Laboratory occupies the third floor and is well equipped with apparatus for original research ; the collection of models for the demonstration of physiological processes is as complete as any in the country. Connected with the laboratory is a large room for section demonstrations and a laboratory of histology.

4. The Pathological Department occupies the entire fourth floor and on this floor is the pathological museum, private rooms for the instructors and advanced workers, thoroughly equipped photographic rooms, workshop and a freezing plant for the preservation of pathological specimens. There is ample supply of material for study in all departments of pathology and bacteriology. On this floor is the Laboratory of Clinical Microscopy.

The fifth floor contains the bacteriological laboratories in front and in the rear a large room used by the classes in histology and pathology.

The position of this general class-room above the surrounding buildings, its equipment with suitable tables, necessary reagents, microscopes and accessories for class work, provides the best accommodation possible for laboratory instruction. It is abundantly lighted upon three sides, is well ventilated, is fitted with separate lockers for each student and has a seating capacity for one hundred men.

CLINICAL ADVANTAGES.

THE Medical Department of Cornell University has been established in New York in order to secure for clinical instruction those advantages which are to be found only in large cities. The Faculty of the Medical College hold appointments in the large hospitals and dispensaries in the city and are enabled to utilize for teaching purposes the large quantity and variety of clinical material of ten of the great City Hospitals, viz.:

Bellevue Hospital—26th Street and East River.

This hospital has 900 beds, and receives 10,000 patients annually. In this building is an amphitheatre capable of seating 300 students, and also a number of small newly built operating theatres, where section demonstrations in surgery and gynaecology are made before the class. Connected with the hospital is a hydropathic establishment. Here students are shown the practical applications of bath, douches, massage etc.

The following clinics are held here during the Session :

Obstetrics and Gynæcology—Monday, 2 P.M.

Prof. POLK.

Medicine—Tuesday and Friday, 3 P.M.

Profs. LOOMIS and THOMPSON.

Surgery—Wednesday and Thursday, 3 P.M.

Profs. STIMSON, WOOLSEY, DENNIS and GWYER.

Genito-Urinary—Wednesday, 3 P.M., for half the term.

Prof. ALEXANDER.

Nervous Diseases—Friday, 4 P.M.

Prof. DANA.

The present College building is situated in the grounds of this hospital, and the new building will be directly opposite.

The Out-Patient Department of Bellevue Hospital treats over 50,000 patients annually. A large proportion of this clinical

material is utilized for the purpose of section teaching by certain members of the Faculty who hold positions in the Dispensary.

City Hospital (formerly Charity Hospital)—Blackwell's Island, East River. To reach this institution the steamer should be taken at the foot of East 26th Street.

This hospital has a capacity of 1000 beds and is divided into 35 wards. It offers a peculiarly rich field for the study of venereal and genito-urinary diseases.

New York Hospital—15th Street, between Fifth and Sixth Avenues.

This is one of the most thoroughly equipped hospitals in the city and has connected with it a large Out-Patient Department.

Clinical instruction is given in this hospital by Professors Stimson, Loomis and Murray.

Presbyterian Hospital—Madison Avenue and 70th Street.

This is a large general hospital of 350 beds and includes an extensive and varied medical and surgical service. Clinical instruction is given in this hospital by Prof. Thompson.

Mothers' and Babies' Hospital—Lexington Avenue and 52d Street.

This modern hospital has 73 beds devoted to maternity cases, and, in addition, a rapidly growing outdoor obstetric service in the tenement-house district. Students of the third and fourth year of the Cornell University Medical College are admitted as internes in this hospital for a period of two weeks or more. During this time the students are boarded and lodged in the hospital building and receive practical bedside instruction under the supervision of Professor Edgar, who is one of the two attending physicians of the hospital, and the hospital staff.

Willard Parker Hospital—Foot of East 16th Street.

This hospital is in charge of the Board of Health, New York City, and offers unrivalled opportunities for the study of contagious diseases—such as diphtheria, scarlet fever, measles, smallpox and typhus fever.

Prof. Winters gives bedside instruction to small sections of the third-year class in this hospital.

New York Skin and Cancer Hospital—19th Street and Second Avenue.

This hospital has recently been opened in its new building. It affords accommodation for the treatment of a large number of patients afflicted with cancer and skin diseases. Section instruction in Dermatology is conducted here by Prof. Elliot and his assistants.

St. Francis Hospital—609 Fifth Street.

A general hospital with a capacity of 230 beds. Section instruction here is under the charge of Prof. Krammerer.

St. Vincent Hospital—195 West 11th Street.

This is a large general hospital containing nearly 200 beds.

Section teaching and clinics are given here by Prof. Dennis.

New York Eye and Ear Infirmary—Second Avenue, corner 13th Street.

This hospital is devoted to the treatment of Eye, Ear and Throat diseases.

Clinical instruction is given in this institution by Profs. Bull and Bacon, aided by a corps of assistants.

Manhattan Eye and Ear Hospital—103 Park Avenue.

This is the largest institution for the treatment of this class of diseases in the city. Prof. Knight and his assistants give instruction in laryngology on Saturdays to sections of the fourth-year class.

In addition to these hospitals, the large teaching corps of the Medical Faculty is represented upon the visiting staffs of many other hospitals and dispensaries in the city, where the University students are invited to attend clinics. Among these are :

THE MATERNITY HOSPITAL.

GOUVERNEUR HOSPITAL.

HARLEM HOSPITAL.

ALMSHOUSE AND WORKHOUSE HOSPITAL.

EMERGENCY HOSPITAL.

RANDALL'S ISLAND HOSPITAL.

FORDHAM HOSPITAL.

COLUMBUS HOSPITAL.

MANHATTAN STATE HOSPITAL.

COURSES OF INSTRUCTION.

The essential features of these courses are as follows :

1. Recitations.—The study of each branch is begun by compulsory recitations, with the class divided into sections. These recitations take the place of much of the former didactic-lecture system and are extended through the four years.

2. Laboratory Instruction.—Thorough laboratory instruction is given and attendance thereat is required in histology, pathology, chemistry, materia medica, clinical microscopy and bacteriology.

A course of practical obstetrics in the service of the Mothers' and Babies' Hospital or its equivalent, practical work in operative surgery and two courses of dissection are required.

3. Clinical and Bedside Instruction.—Besides the general and special clinics held in Bellevue Hospital, the College building and in other New York hospitals, bedside *clinical* instruction will be given to the third- and fourth-year classes in sections in the wards of Bellevue Hospital.

Ward work will be conducted for students in small groups, under the instruction of the professors and clinical professors of medicine, surgery and the special branches in Bellevue and the various hospitals and dispensaries with which they are connected.

4. Gradation of the Course.—No student is allowed to progress to a higher class unless his work in the class next below has attained a satisfactory standard, or unless the conditions allowed have been made good as specified on p. 73. For this purpose attendance on recitations, laboratory exercises, dissection and ward work is compulsory and the marks obtained in these exercises help to determine the advancement of the student to the higher class. Examinations are held during and at the end of each year, those at the end of the year being final for the work of that year.

ANATOMY.

GEORGE WOOLSEY, M.D., *Professor of Anatomy.*

IRVING S. HAYNES, M.D., *Professor of Practical Anatomy.*

DR. WILLIAM F. STONE, *Instructor.*

Assistant Demonstrators of Anatomy.

DR. JOHN ROGERS, DR. EDWARD L. KEYES, JR.,

DR. FRANK S. FIELDER.

Anatomy is taught in the first and second years by lectures, recitations, section demonstrations and dissection. A review quiz to prepare for State and hospital examinations is held during the fourth year.

Lectures are confined to practical applied anatomy and are given by the Professor of Anatomy once a week to students of the first year and three times a week to students of the second year. In the first year the lectures embrace the practical anatomy of the bones and joints, and follow the recitations on these subjects. In the second year, after a short introductory course on embryology, the lectures are devoted to regional, applied and surgical anatomy, the students being already well grounded in descriptive anatomy.

One lecture a week is given during the second year by the Professor of Practical Anatomy on the development and gross anatomy of the nervous system, the gross anatomy and relation of the viscera, the joints etc.

Descriptive anatomy is taught by recitations, section demonstrations and dissection.

Recitations, from standard text-books, are held by the Instructor in Anatomy twice a week for each section of the first-year class and once a week for each section of the second-year class. During the first year bones, joints, muscles, arteries and veins are recited upon; during the second year, the viscera and the nervous system. Written reviews are held at intervals under

the direction of the Professor of Anatomy, the last of which is a general review or examination of the year's work. In the first year the students of each section begin to recite upon the bones of that part which they are to dissect at the end of the first month, and so on through the second and third months.

PRACTICAL ANATOMY.

Section Demonstrations are conducted by the Professor and Assistant Demonstrators of Practical Anatomy once a week for each section during the first and second years. During the first three months of the first year the students are prepared for their dissection by recitations in the class-room, upon the bones of the part they are to dissect in the following month, and by section demonstrations on the cadaver, by means of which they are taught how to dissect, what to find and where to find it. After this the joints are demonstrated and a preliminary demonstration of the viscera is given. In the second year, the brain and nervous system, organs of sense, viscera and perineum are demonstrated.

Dissection.—The dissection of six parts (two courses) is required, and more may be done at the option of the student. Three to five parts may be dissected in the first year; one to three, or more, in the second year. In the first year, dissection is commenced after the recitations and section demonstrations of the first month have prepared each student for the part assigned, and so on for the first three parts.

In the dissection of the second three parts the work of the first course, including the joints, is reviewed and, in addition, the dissection of the viscera and minuter parts is required. Students are examined and marked on the dissection of each part required. Prepared bones are loaned to students during the session from a large collection kept for this purpose.

Preliminary training in comparative anatomy is very desirable. A practical in addition to a written examination is held by the Professor of Anatomy at the end of the second year. At the end

of the first year there is a written review or examination on the work of the year.

Advanced, Special and Post-graduate Courses.—On the completion of the new building, advantage will be taken of the opportunity to offer to students and the medical profession facilities for pursuing advanced, special and post-graduate courses in practical anatomy.

Furthermore, during the months of May and June a course in applied anatomy will be inaugurated consisting of practical work with demonstrations on the cadaver.

Details of this School of Applied Anatomy will be announced later.

PHYSIOLOGY.

AUSTIN FLINT, M.D., *Professor of Physiology.*

Instructor,

Assistant,

DR. JOHN A. HARTWELL.

DR. LOUIS NEUMANN.

Instruction in this branch is given by lectures, recitations and demonstrations, during the entire season, to first- and second-year students.

Lectures.—The lectures by the professor are practical and illustrative. Special attention is paid to the application of physiology to practical medicine and surgery, much time being devoted to what may be called applied physiology.

Recitations.—First-year students recite once a week from the text-book, completing the entire subject of human physiology, as taught by the professor, except the nervous system and the special senses. Second-year students recite twice a week on the nervous system and the special senses and review the work of the first year.

The physiological laboratory is amply provided with models and apparatus for illustration and for original research.

CHEMISTRY, PHYSICS AND TOXICOLOGY.

RUDOLPH A. WITTHAUS, M.D., *Professor of Chemistry.*

Assistant Professor,

DR. IVIN SICKELS.

Instructor,

DR. LOUIS W. RIGGS.

Lectures.—Students of the first year will receive two lectures each week on physics, the divisions of the subject being considered in the following order: General properties of matter and force, mechanics, hydrostatics, pneumatics, optics, electricity, heat and acoustics. The lectures will be abundantly illustrated and the relations of physics to surgery and medicine will be particularly considered.

During the second year students will attend two lectures weekly. Organic chemistry will be considered in the earlier part of the term to an extent sufficient to impart a knowledge of the principles of combination of the carbon compounds and the properties and relationships of those which are of physiological, toxicological or therapeutical interest. The lectures during the latter part of the second year will be upon physiological chemistry.

During the third year one lecture will be given weekly on toxicology. In these lectures the medical and medico-legal bearings of the subjects will be chiefly considered.

Recitations.—Students of the first year will recite twice each week on physics and the principles of chemistry and mineral chemistry. Those of the second year will recite once weekly on organic and physiological chemistry.

Laboratory Work.—Laboratory instruction will be given students of the first year six hours weekly during one half of the session. This course will consist of an experimental study of the commoner elements and compounds in illustration of the recitation course, and of training in the processes of qualitative analysis of inorganic substances, including mineral poisons.

When the new laboratories will be available students of the sec-

ond year will receive laboratory instruction equivalent to four hours' laboratory work weekly during one half the term in physiological chemistry and the chemistry of the organic poisons.

Each student is fully supplied with all apparatus and chemicals required, except urinometers, which are carefully corrected for the student that they may serve for future use.

These courses are personally conducted by the Professor of Chemistry and Physics, assisted by the instructors.

First-year students presenting satisfactory evidence of having performed equivalent work in chemistry and physics will be excused from first-year work in this department, and be given advanced laboratory work equivalent in hours to that omitted.

MATERIA MEDICA AND THERAPEUTICS.

HENRY P. LOOMIS, M.D.,

Professor of Materia Medica and Therapeutics.

Instructors,

Dr. WARREN COLEMAN.

Dr. EDMUND P. SHELBY.

Clinical Assistant,

Dr. RUSSELL BELLAMY.

Instruction is given in this department by means of lectures, clinical instruction, recitations and practical laboratory work.

Lectures.—These are given by the professor once a week to the second-year students and once a week to the third-year students. They are confined almost exclusively to therapeutics, as it is believed that materia medica can best be taught by recitations and by laboratory work.

The physiological action of drugs will receive special attention and their therapeutic application will be explained, so that the treatment of disease may be on a systematic basis.

Lectures will be given on remedial agents other than drugs, such as massage, dietetics, climatology, mineral waters and hydrotherapy.

Clinical Instruction.—A new departure in the teaching of therapeutics will be made by affording the students of the third and fourth years opportunity to observe the effects of the different remedies on the natural course of disease. To accomplish this the classes will be divided into small sections and taken by the professor into the wards of Bellevue Hospital. Actual practice is given in the employment and application of the various therapeutic agents used in medicine, such as the hypodermic syringe, aspirators, cups, cauteries, stomach-tube, stupes and the different varieties of baths and packs. The treatment of the different diseased conditions observed will be systematically studied, and opportunities will be given to the members of the class to make personal examination of the patients and to watch the modification of disease produced by the remedies prescribed. The clinical work of the third and fourth years affords abundant opportunities for further training in practical therapeutics. A general medical clinic will be held by the professor once a week in the amphitheatre of Bellevue Hospital.

Recitations.—Students of the second year will recite to the instructor twice a week from the standard text-book. During the third year a recitation will be held once a week on therapeutics.

The recitations will embrace a study of the action of all the more valuable remedial agents in connection with the description of the drugs themselves.

Each student will be thoroughly drilled in prescription-writing and in the doses of the more important drugs.

Examinations will be held at stated times during the session by the professor to enable him to judge of each student's progress.

Laboratory Work.—The course of laboratory instruction is taken during the first year, and consists of six hours each week for half the year. The class is divided into small sections, and is under the personal supervision of the instructor. The method of instruction is distinctly practical. The student is made familiar by the laboratory work with the physical and chemical properties of drugs. This course includes such subjects as the forms of drugs, their weight and bulk, the measurement of solid and fluid

drugs, methods of administering medicines, particularly with reference to appropriate combinations, and the study of solubilities. The subject of incompatibilities is clearly demonstrated.

Prescription-writing is taught throughout the course, and each prescription written is compounded by some member of the section.

The materia medica laboratory is equipped for pharmaceutical instruction, and students are taught by practical exercises in the preparation and compounding of drugs.

The laboratory is provided with a full assortment of crude drugs and the various preparations of the materia medica, also with complete appliances for instruction in the remedial agents which are not medicines. Advanced students will be given opportunity to study experimentally the physiological action of drugs.

MEDICINE.

W. GILMAN THOMPSON, M.D., *Professor of Medicine.*

Professors of Clinical Medicine,

ALEXANDER LAMBERT, M.D., CHARLES E. NAMMACK, M.D.

Instructors,

DR. WARREN COLEMAN,

DR. DEVER S. BAYARD,

DR. LEWIS A. CONNER,

DR. C. N. BANCKER CAMAC.

Assistant,

DR. RUSSELL BELLAMY.

The Course of Medicine, extending over three years, is so graded that the student pursues a logical sequence of work throughout. No didactic lectures upon Practice of Medicine are delivered, their place being wholly taken by bedside instruction and recitations. The complete course comprises the following subdivisions (the roman numerals indicate the years of the course in medicine, not those of the curriculum):

- I. Recitations from an elementary text-book.
Normal Physical Signs of the Chest.
- II. Recitations from an advanced text-book, including written reviews.
Abnormal Physical Signs of the Heart and Lungs.
Bedside History-taking.
Bedside course in Symptomatology.
Clinical Microscopy.
Bedside course in General Medical Diagnosis.
Ten lectures on Symptomatology.
General Hospital Medical Clinics.
- III. Advanced bedside course in Symptomatology and Diagnosis.
Demonstrations of patients by the student before the class.
Courses in the Out-Patient Clinic in the Heart and Lungs and General Medicine Classes.
General Hospital Medical Clinics.
Medical Conferences.
Elective advanced work in Clinical Diagnosis (Clinical Microscopy, History-recording etc.).
Review quizzes for State Board examinations.

The details of the methods of instruction in medicine for each year of the curriculum are as follows :

I. SECOND-YEAR STUDENTS.

Recitations.—Second-year students begin the study of medicine with systematic recitations from an elementary text-book, in which the subjects of nomenclature, etiology, morbid anatomy and typical symptoms only are dwelt upon.

Physical Diagnosis.—Normal physical diagnosis of the chest is taught to sections of ten students each in Out-Patient Classes from the dispensary under Dr. Bayard. Each student is required to map out upon the patient the normal positions and sounds of the thoracic viscera, and toward the end of each course of ten lessons a few abnormal cases are introduced for comparison.

II. THIRD-YEAR STUDENTS.

Recitations.—Third-year students recite twice a week from an advanced text-book on Practice, special emphasis being given to symptomatology, complications, diagnosis and treatment.

Written reviews are held at intervals to familiarize the student with examinations. All recitations are obligatory and the recitation marks received form an important component of the final examination marks of the year.

Ward Work.—Systematic and obligatory ward work is begun in classes not exceeding fifteen students each, who accompany the Professor of Medicine on routine rounds through the hospital wards. Professor Thompson instructs at the Presbyterian Hospital until January, and at Bellevue thereafter throughout the year. Repeated illustrations of all the common diseases are studied, and the advantage to the student of personally examining dozens of cases of such diseases as typhoid fever, pneumonia, nephritis, cardiac ailments etc., in different stages of development, and of following their daily progress, far outweighs the antiquated system of attendance upon didactic lectures. The student is first taught to observe and describe symptoms and investigate etiology, and as he attains proficiency is required to make diagnoses, offer prognoses and suggest treatment. At the ward clinic such medical operations are shown as lavage, inflation of the stomach for diagnosis, aspiration for pleurisy and ascites etc.

General Diagnosis.—Dr. Coleman gives a special course in General Medical Diagnosis, in which at one lesson the student is required to examine, compare and report upon each variety of pulse found in the ward; at another upon each variety of cachexia, anæmia or œdema; at another, upon each variety of abnormal liver or spleen; and so on, comprising all the important physical examinations.

Medical Conferences.—Under Dr. Coleman's direction, also, students are assigned to special cases which they study in detail for several weeks, reviewing the literature of the subject, and then

they report in writing at a medical conference, at which their fellow-students are called upon to offer criticisms and general discussion.

Clinical Laboratory Courses are conducted under Dr. Camac's supervision in immediate connection with the study of hospital and dispensary cases. In this laboratory the student acquires methods and technique which he is required to put in practice with patients. The laboratory is also used extensively by the visiting staffs of the Hospital and Out-Patient Clinic for completing the data of their cases.

The students are divided into small sections, so that each member of the class receives the personal assistance of the demonstrator. At the conclusion of the course a written examination is held, upon the result of which, as well as upon the character of the work done, each successful student is given a certificate to the effect that he has completed the course. Upon the presentation of this certificate to the demonstrator in charge, the student is allowed the use of the laboratory and its apparatus for the study of cases in the wards. When assigned to cases at the general medical clinic the student is required to report the result of his examination of the sputum, blood, urine etc. Students reporting at the medical conferences, for which longer time is allowed for preparation, make more extended research in the laboratory. Students are also, from time to time throughout the year, assigned to study cases in the hospital and dispensary ; records are kept of these cases from which valuable clinical deductions may be made.

The apparatus employed is of such simple nature that it can readily be transported to the bedside, the work being thus essentially practical and such as is a direct guide to diagnosis. The student *himself* uses the apparatus so that he may become familiar with its care and application.

Following is a brief outline of the course :

BLOOD.—Technique of obtaining blood specimens ; normal constituents of blood ; blood formation in bone marrow ; corpuscle counting and hæmoglobin estimation ; technique of fix-

ing and staining specimens ; diseased conditions determined by differential counting ; study of blood-serum diagnosis ; leucocytosis ; malarial and other blood parasites ; medico-legal value of blood stains.

SPUTUM.—Collection and examination of the gross specimen ; disinfection of sputum cups etc. ; specimens of sputum in asthma, pneumoconiosis, tuberculosis, gangrene and hemorrhage from the lungs, pneumonia etc. ; diphtheria and other bacilli.

GASTRIC CONTENTS.—Examination of vomitus ; administration of test meals ; method of obtaining and examining gastric contents ; lavage.

FÆCES.—Method of obtaining and examining ; intestinal parasites and ova.

URINE.—Microscopic examination with reference to diagnosis ; gonococci, tubercle bacilli etc., seminal fluid in its medico-legal aspect, crystalline deposits.

* **EXUDATIONS AND TRANSUDATIONS.**—Ascitic and pleuritic effusions, cystic contents, vaginal discharges.

Each student is furnished typical specimens which he stains and studies at the demonstrations and preserves for future reference and comparison.

Physical Diagnosis.—Physical diagnosis of abnormal conditions within the chest is taught by Professor Lambert to classes of a dozen students each. This course is very comprehensive, owing to the large attendance at the Class of Heart and Lung Diseases of the Bellevue Out-Patient Department, from which the patients are derived.

General Medical Clinics.—General medical clinics are held weekly in the amphitheatre of Bellevue Hospital by the Professor of Medicine. At these clinics students read written histories of cases which they have studied on the previous day. They are required to demonstrate their findings upon the patient and are questioned before the entire class in regard to diagnosis etc. These clinics are also utilized by the Professor of Medicine to exhibit cases of exceptional rarity or difficult diagnosis. A second general medicine clinic is held weekly in the Bellevue

amphitheatre by the Professor of Therapeutics, at which the effects of treatment are made the prominent feature.

Lectures.—A course of ten lectures is given by the Professor of Medicine, which is designed as introductory to the systematic bedside teaching which he conducts upon hospital rounds. The course covers such general topics as the theory and nature of infections, the theory and significance of fever, cachexias, diatheses, the blood in disease etc.

III. FOURTH-YEAR STUDENTS.

Fourth-year students attend the general ward classes and amphitheatre clinics with the Professor of Medicine as described for the third year, and also make systematic rounds through the wards with Professors Lambert and Nammack when on duty in Bellevue Hospital, and with Dr. Conner at the Hudson Street Hospital. They attend the medical conferences, present complete histories of dispensary and ward patients, attend special classes in the Out-Patient Department and during the latter part of the year recite in a review quiz in preparation for hospital and State Board examinations. An elective course in advanced clinical microscopy and diagnosis is offered in the fourth year.

SURGERY.

LEWIS A. STIMSON, M.D., *Professor of Surgery.*

Professors of Clinical Surgery.

FREDERIC S. DENNIS, M.D.,	FREDERICK W. GWYER, M.D.,
GEORGE WOOLSEY, M.D.,	FRANCIS W. MURRAY, M.D.,
FREDERICK KAMMERER, M.D.	

Instructors,

DR. PERCIVAL R. BOLTON,	DR. JOHN ROGERS, JR.,
DR. BENJAMIN T. TILTON,	DR. ARCHIBALD E. ISAACS,
DR. C. R. L. PUTNAM.	

Assistants,

DR. WILLIAM F. STONE,	DR. H. M. ARCHER.
-----------------------	-------------------

Surgery will be taught in the recitation room, at the bedside, at hospital clinics and by lectures.

In the second year the students are required to attend recitations on the principles of surgery two hours a week throughout the term. For this purpose the class is divided into small sections to insure thorough work ; so far as time permits instruction will be given at the bedside.

In the third year recitations are continued upon regional surgery ; the class is instructed in sections in Bellevue Hospital in history-taking and methods of surgical examination and diagnosis, two or three hours a week for part of the term ; bedside instruction is given daily in several hospitals to small groups, and formal clinics are held in Bellevue, New York and other hospitals ; about twenty lectures will be given by the Professor of Surgery, and a diagnosis clinic is held once a week at which the students are required personally to examine and report upon the cases.

In the fourth year the students will receive clinical instruction in small groups in several hospitals and dispensaries upon general surgery and the special branches—eye, ear, nose and throat, genito-urinary diseases, dermatology and orthopædics ; will attend the clinics and will have a review quiz in preparation for examination.

The members of the sections are personally trained in the examination of patients, the dressing of wounds and fractures and the administration of ether.

The opportunities for instruction in the special branches are exceptionally ample. There will be several clinical teachers in each subject, each with hospital and dispensary services. The student will be enabled directly to examine and study cases, and will have a certain choice as to the time given to each branch.

Operative surgery will be taught in the fourth year in sections. The course consists of recitations, work upon the cadaver and bandaging. As the material is abundant each member of the class will perform all the principal surgical operations.

OBSTETRICS.

J. CLIFTON EDGAR, M.D., *Professor of Obstetrics.*

Instructors,

DR. GEORGE D. HAMLEN,

DR. GEORGE G. WARD,

DR. GEORGE P. SHEARS.

Instruction in obstetrics will be given during the second, third and fourth years by recitations and conferences, illustrative lectures, attendance upon cases of confinement, clinics and ward work and manikin practice.

Recitations from a standard text-book will be held by the instructor in obstetrics during the second year upon the physiology, and during the third upon the pathology of obstetrics, the latter including obstetric surgery.

These recitations are so scheduled as to cover the entire field of the subject laid out for the college year, are supplementary to the work of the Professor of Obstetrics during each of these two years and prepare the student for an intelligent appreciation of his subsequent illustrative lectures, obstetric conferences, attendance upon cases of confinement, clinics and manikin practice.

The Illustrative Lectures comprise a systematic course, running through the third year, upon the physiology and pathology of obstetrics.

These lectures are theoretical to a limited extent only, being mainly demonstrative and illustrative in character. To this end ample blackboard space is used, as well as an abundant collection of pelvises, entire, normal and deformed, mesial sections of the same and in addition a supply of diagrams, charts, carefully selected plaster composition and metal models, wet and dry preparations and instruments.

In conjunction with these lectures additional recitations are held by the Professor of Obstetrics upon the subject-matter of the college year and for final review.

Attendance upon Cases of Confinement.—Each candidate for the degree of M.D. is required to present a satisfactory certifi-

cate to the effect that he has attended, under proper supervision, at least six cases of confinement.

To fulfil this requirement students are appointed as internes in the Mothers' and Babies' Hospital, Lexington Avenue and 52d Street, and receive this practical instruction from the Professor of Obstetrics and the instructors. Students are lodged and boarded in the above hospital for periods of two weeks or more and attend confinement cases both in the hospital building and in the tenement-house districts.

During the student's attendance upon his practical maternity course he may be excused from the exercises of the College, but it is strongly recommended that the student fulfil the above requirement in the vacation between the third and fourth years or during the latter year.

Manikin Practice is given to sections of the class during the fourth or senior year, and consists of work by individual students upon the manikins, under the supervision and criticism of an instructor.

In addition, these meetings will be made the occasion for review recitations and "obstetric conferences" upon the illustrative lectures of the third year and the student's work in his attendance upon confinement cases. By this means each individual student's standing in the Department of Obstetrics is readily ascertained.

GYNÆCOLOGY.

WILLIAM M. POLK, M.D., *Professor of Gynæcology and Obstetrics.*

Instructors,

DR. CHARLES C. BARROW,
DR. GEORGE D. HAMLEN,

DR. WILLIAM TRAVIS GIBB,
DR. JOHN ASPELL.

Instruction in gynæcology is given by recitations, lectures, ward and class-room demonstrations, clinics and laboratory demonstrations.

The Recitations are planned to cover the entire subject and are held one hour a week during the third year of the course. In order that the instruction throughout the department may be as nearly in unison as possible, a synopsis of the subject-matter of each lesson is prepared by the instructor and amended and revised by the head of the department. This is presented to the student for comparison with his text-book, to which it is an addendum. This method insures the coöperation of the head of the department in the groundwork of his subject and enables him to keep in touch with each student until his graduation.

Six Lectures, upon topics selected for their special importance and interest, will be given during the third year.

Class-Room and Ward Demonstrations are given to sections of the fourth-year class twice a week throughout the year. This instruction includes the examination of patients by the student. When necessary the patients are anæsthetized.

The routine of treatment appropriate to the various conditions found is demonstrated, the students assisting when possible. Familiarity in this way is acquired not only with normal conditions within the pelvis and the various departures from this state induced by disease, but opportunity is afforded to see and put in practice actual measures of relief and to watch the subsequent course and treatment of these cases.

Operations are performed three days every week at which the several sections are enabled to study the detail of every operation peculiar to this department.

A General Clinic is held once a week at which students selected in rotation are required to examine the patient, make a diagnosis and suggest treatment. They are questioned before the class upon all these topics, as they relate to the case in hand, so as to determine the correctness of their conclusions. Should operation be called for, it is then performed.

Laboratory Demonstrations of secretions, discharges and specimens obtained from patients who come under observation during this course are made to sections of the third-year class as a part of the course in clinical microscopy.

HYGIENE.

The progress made during the past few years in sanitation and the increasing responsibilities and duties of health officers and quarantine officials make it necessary that the properly equipped physician should not only be familiar with all that relates to the recognition, the prevention, the control and the care of infectious diseases, but should have a practical knowledge of all that relates to the science of sanitation, especially as it bears upon drainage, the disposal of refuse, ventilation and cleanliness, and to food inspection.

To meet the necessity for thorough instruction in this department, two courses of illustrated lectures, together with clinical demonstrations and laboratory investigations and demonstrations, will be given as a part of the curriculum of the College. For the convenience of graduates in medicine, these courses will be arranged to cover a period of two months each, one to be given during October and November, and another during May and June, the latter forming a part of the summer course.

The lectures, two a week, will be devoted to the principles and practice of sanitary science, including sanitary engineering, and will be freely illustrated by models, charts and diagrams.

The clinical demonstrations will be given the class in sections, and will include the study of the diagnosis and care of infectious diseases, together with the use of antitoxins.

The laboratory investigation and demonstration will also be pursued by the class in sections, and will include practical work in the chemical, pathological and bacteriological laboratories. The student will be taught the methods of testing and analyzing water, milk, meats and other food products; the methods of using disinfectants and deodorants, the methods of cultivating and counting the organisms which are found in food and in water, the methods of identifying pathogenic organisms and the methods of testing the purity of air in rooms. This work will be

essentially practical, so as to show the surest and readiest way to reach a sound conclusion in the several problems presented. The officers of the Board of Health have kindly consented to the presence of students wherever a more extended demonstration of sanitary inspection can be given, such, for instance, as is applied to schools and other large buildings. A similar privilege will also be sought at the hands of the chief of quarantine, so that every detail of hygiene sanitation, in all its fields, will be covered.

PATHOLOGY.

INCLUDING HISTOLOGY, GROSS AND MICROSCOPICAL
PATHOLOGY AND BACTERIOLOGY.

JAMES EWING, M.D., *Professor of Pathology.*

DR. BERTRAM H. BUXTON, *Instructor in Bacteriology.*

DR. OTTO H. SHULTZE, *Instructor in Gross Pathology.*

DR. CHARLES NORRIS, *Instructor in the Pathology of the Infectious Diseases.*

DR. JEREMIAH S. FERGUSON, *Instructor in Histology.*

DR. JAMES C. JOHNSTON, *Assistant in Pathology.*

DR. GUY D. LOMBARD, *Assistant in Histology.*

DR. HENRY S. PASCAL, *Assistant in Histology.*

— — —, *Assistant in Bacteriology.*

— — —, *Assistant in Gross Pathology and Curator of the Museum.*

HISTOLOGY.

The work in this department is conducted throughout the first year by means of recitations and laboratory exercises.

Recitations.—Recitations are held throughout the first year on subjects assigned from a standard text-book on histology.

The recitations are designed to familiarize the student with the theoretical structure of the various tissues and organs prior to the practical demonstration of the microscopic sections.

Laboratory Exercises, in two-hour sessions, will occupy about ninety hours during the year. The work comprises instruction in the construction and use of the microscope ; the preparation, hardening, embedding, cutting, staining and mounting of all the various normal tissues of the body. The primary object of the course is to teach the student by a logical sequence of study and microscopical demonstration the minute anatomy of the human body. Attention is constantly directed to the practical application of this knowledge to the explanation of the phenomena of physiology and to the characteristic appearance of normal tissues as forming the basis for the study of pathology. An examination is held at the close of the course.

PATHOLOGY.

The instruction in pathology includes one recitation weekly and attendance upon autopsies in the second year ; microscopical and gross demonstrations and lectures upon general and special pathology and upon the bacteriology of the infectious diseases in the third year ; and instruction in the technics of post-mortem examinations, with weekly recitations upon the entire subject, in the fourth year.

Microscopical Demonstrations in Pathology.—The student having been prepared for the detailed study of pathology by attendance upon autopsies in the second year, the main branches of the subject are grouped in the third year in order to emphasize the close connection between the gross and microscopical changes in diseased tissues.

The microscopical demonstrations are designed to illustrate the principles of general and special pathology, and constitute the main feature of the instruction in this department during the third year. The specimens studied embrace the topics of inflammation, tumors, auto-intoxication, infectious diseases and diseases of the nervous system and are supplemented by lectures and by special demonstrations by means of charts and photomicrographs.

In the study of the infectious diseases special attention is devoted to pathogenic micro-organisms. The course occupies six hours each week for one-half the year.

Gross Pathology.—Students of the second year are required to attend the *autopsies* performed by members of the fourth-year class, in order to become acquainted, in a general way, with the gross appearance of diseased organs and to be prepared for the study of clinical medicine.

On the days alternating with the microscopical studies *demonstrations* of gross pathological specimens are given to students of the third year, on the material collected from the autopsies. With the viscera of each case are presented an epitome of the clinical history, and, as far as possible, frozen sections of the organs, and the attempt is made to explain the course of the disease and the clinical symptoms from the gross and microscopical changes in the altered tissues. It is expected that the student will see the viscera of many of the fatal cases which he has studied in the wards of the hospital.

Gross Pathological Diagnosis.—Gross pathological diagnosis is also taught as a separate branch of the subject, not bearing directly on the clinical aspect of the case.

These demonstrations with recitations occupy six hours each week, each section of the class attending one quarter of the year.

An examination is held at the close of the course.

Post-Mortem Examinations.—Students of the fourth year are required to perform *autopsies* under the direction of the instructor when they receive instruction in the technical procedures required in ordinary and in medico-legal cases.

In the weekly *recitations* of the fourth year due attention is paid to the review of the work in gross pathology.

BACTERIOLOGY.

Bacteriology is taught as a branch of biology to students of the second year. After instruction in the principles of disinfection, the student is required to prepare the ordinary culture media. The work then proceeds to the methods of staining and

examining bacteria ; their artificial cultivation and the study of biological character ; the methods employed in the separation of species ; the general relation of pathogenic bacteria to disease ; and concludes with the biological analysis of air, water, soil and milk. The course occupies six hours each week for one quarter of the year.

During the exercises in gross and microscopical pathology the student is required to make cultivations from the viscera in various infectious diseases and to observe the biological characters of the more important pathogenic micro-organisms. This work is supplemented, where necessary, by the use of pure cultures, by the exhibition of aërobic cultures and, to a limited extent, by animal inoculation.

Advanced Courses.—The abundant facilities of the Loomis Laboratory are open for the use of a limited number of properly qualified students or practitioners of medicine to pursue advanced courses of study, or original research, under the direction of the Department.

SPECIAL DEPARTMENTS.

DISEASES OF CHILDREN.

JOSEPH E. WINTERS, M.D., *Professor of Diseases of Children.*

Instructor,

DR. WILLIAM SHANNON.

Assistants,

DR. ROBERT S. ADAMS, DR. WILLIS S. COOKE,
DR. WALTER A. DUNCKEL.

This department will embrace clinical instruction and section teaching in all the important diseases of infancy and childhood.

There will be one clinical lecture each week in the College building, and clinical lectures in the Willard-Parker Hospital on Scarlet Fever and Diphtheria.

In connection with the Dispensary of the Children's Department in the new College building there will be an amphitheatre for section teaching and isolation rooms for contagious diseases, so that students will have ample opportunity for the personal study of disease.

Three hours each week will be devoted to section teaching in the Dispensary of the College building.

Students will be required to examine sick children and discuss the diagnosis and treatment of patients assigned to them.

Special attention is given to the hygiene and feeding of infants; the digestive disorders of infants; the anatomical and physiological peculiarities of infancy and childhood; and the influence these peculiarities have on the manifestations of disease in children.

One of the distinguishing features of this department will be the instruction of each student in the art of diagnosis, by the professor in charge.

In the Clinical Laboratory microscopic examinations will be made of secretions and excretions, of lesions of the mouth and throat and of sections of anatomical lesions of the important diseases of childhood.

NERVOUS DISEASES.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System.

Instructor,

DR. JOSEPH FRAENKEL.

Assistants,

DR. L. J. J. MUSKENS,

DR. M. SCHLAPP.

The regular schedule work consists of a preliminary series of ten lectures, given by Professor Dana, in which the general outline of the work for the year is given, with demonstrations of the general anatomy, general symptomatology and methods of examination of the nervous system. During the rest of the term clinical lectures on nervous diseases are given weekly in the amphitheatre of Bellevue Hospital. Section work is also given weekly to classes in the wards of Bellevue Hospital during the whole term.

During two months of the term special section work is given to the students in the fourth year, under the charge of the instructors and clinical assistants. In this way the student before graduation becomes practically familiar not only with the functional and chronic, but with the more acute forms of nervous diseases. The opportunities for seeing such diseases in the alcoholic pavilion, in the insane pavilion and in the general wards of Bellevue are probably unsurpassed.

Opportunities for special study in clinical neurology are also given to such advanced students as may select it, in the Outdoor

Department of Bellevue Hospital and in the neurological clinic connected with the College.

It is considered of supreme importance that the student of nervous diseases be thoroughly grounded in the more elementary facts of the anatomy and physiology of the nervous system. It is for this purpose in particular that certain preliminary didactic lectures with quizzes are given.

To carry out this purpose further, courses in the gross and microscopical anatomy of the nervous system are provided for special students and also courses in neuropathology, with opportunities for original investigation for those who so desire it.

MENTAL DISEASES.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,
Professor of Mental Diseases.

Assistant,

DR. GEORGE DE FOREST SMITH.

The Professor of Mental Diseases will give a series of clinical and didactic lectures once a week for four months, illustrated by patients from the Manhattan State Hospital on Ward's Island, and by the lantern and cinematograph. Clinics will also be given at the asylum once a week during the latter part of the course.

Instruction will also be given in diagnosis, the legal commitment of the insane and the relations of insanity to medical jurisprudence.

DERMATOLOGY.

DR. GEORGE T. ELLIOT, *Professor of Dermatology.*

Instructors,

DR. THURSTON G. LUSK,

DR. HENRY H. WHITEHOUSE.

Assistant,

DR. W. BEDFORD BROWN.

Instruction in dermatology will be given by the clinical professor and his assistants by means of lectures to the whole class and also by section work. No teaching will be given didactically,

but the cutaneous diseases will be demonstrated on the living subject. Abundance of material for such instruction is obtainable and the student can thoroughly familiarize himself with the more common as well as with the rarer diseases of the skin by actual personal contact and observation. Attention is particularly paid to the diagnosis and the etiology of skin diseases, and their therapeutics also receive due consideration.

LARYNGOLOGY AND RHINOLOGY.

CHARLES H. KNIGHT, M.D., *Professor of Laryngology.*

Instructor,

DR. JAMES E. NEWCOMB.

Assistant,

DR. JOSEPH A. KENEFICK.

Instruction in laryngology and rhinology is given by a clinical lecture at the College by the professor of the department. The subjects then considered are demonstrated to the fourth-year students by the assistants on Saturdays at the Demilt Dispensary and at the Manhattan Eye and Ear Hospital. The class is divided into sections, and each member is expected to examine patients and perform manipulations. The clinics are fully illustrated by plates and models, and, as far as possible, by clinical material.

OPHTHALMOLOGY.

DR. CHARLES STEDMAN BULL, *Professor of Ophthalmology.*

Instructor,

DR. COLEMAN W. CUTLER.

Assistant,

DR. ROBERT G. REESE.

Instruction in ophthalmology consists in clinical lectures at the College building once a week, and in sectional teaching, one hour a week, at the New York Eye Infirmary. The weekly lecture at the College is largely clinical, the external diseases of the eye being illustrated by patients. The didactic lectures take up the various lesions of the eye which are not susceptible of clinical demonstration, and thus the entire field of ophthal-

mology is covered. The sectional teaching at the Eye Infirmary is devoted partly to clinical ophthalmology and the use of the ophthalmoscope, and partly to instruction in the errors of refraction and the rudiments of the fitting of lenses.

OTOLOGY.

DR. GORHAM BACON, *Professor of Otology.*

Instructors,

DR. FRANKLIN M. STEPHENS,

DR. EARLE CONNER.

Assistant,

DR. GEORGE SLOAN DIXON.

During the first half of the third year a systematic course of weekly lectures is given. These lectures are practical in character, including a consideration of the anatomy and physiology of the ear and the various methods of examination. Patients are shown to the class in order to familiarize the students with the symptoms and character of the more important diseases.

For the fourth-year students, the class is divided into sections for clinical instruction in the dispensary. Each student receives practical instruction from Dr. Bacon and his assistants in the examination of patients, the use of the otoscope and the various methods of testing the hearing. The student is permitted to examine patients and, after a probationary period, to prescribe for them and thus gradually assume the duties of a clinical assistant. The students have also an opportunity of witnessing the more important operations in aural surgery, including intracranial complications.

GENITO-URINARY DISEASES.

SAMUEL ALEXANDER, M.D., *Professor of Genito-Urinary Surgery.*

Instructors,

DR. GEORGE K. SWINBURNE,

DR. MARTIN J. ECHEVERRIA,

DR. FOLLEN CABOT.

The course is given during the third and fourth year, and is designed to give special instruction in the diagnosis and treat-

ment of the surgical diseases of the male genital and urinary organs and of syphilis. It consists in recitations, general clinics, bedside instruction in the wards of Bellevue Hospital and section work at the Good Samaritan and New York dispensaries and the Out-Patient Department of Bellevue Hospital.

Recitations upon the surgical diseases of the urinary and genital organs and upon syphilis are held by the instructors in surgery during the third and fourth year and are included in the courses of surgery.

General Clinics.—A clinic is held in the amphitheatre of Bellevue Hospital once a week throughout the entire session by Professor Alexander. At this clinic the principal operations upon the male urinary and genital apparatus are performed and explained and special attention is given to the subject of diagnosis. A part of the course is devoted to the subject of syphilis, the lectures being fully illustrated by patients. Attendance upon these clinics is required during the third and fourth year.

Section Teaching in Bellevue Hospital.—The fourth-year class is divided into sections of small size, and instruction is given to these in the wards of Bellevue Hospital by Professor Alexander. This course is devoted principally to exercises in the diagnosis of the diseases of the urinary organs, to instruction in the use of special instruments and apparatus and to the post-operation treatment of cases.

Section Teaching at the Dispensaries.—Section teaching is also given during the third and fourth year at the Good Samaritan Dispensary by Dr. Swinburne, at the New York Dispensary by Dr. Echeverria, and at the Out-Patient Department of Bellevue Hospital by Dr. Cabot. The very large supply of clinical material at these dispensaries gives the student unusual opportunities to observe and become familiar with the various forms of disease of the male urinary and genital organs. Special attention is given in the dispensary courses to the diagnosis and treatment of the venereal diseases.

ORTHOPÆDIC SURGERY.

NEWTON M. SHAFFER, M.D., *Professor of Orthopædic Surgery.*

Instructors,

DR. P. HENRY FITZHUGH,

DR. JOHN MCGAW WOODBURY.

The course of study in the Orthopædic Department includes a stated clinical lecture once a week, with detailed demonstrations in sectional work twice a week during two months of the year.

During the regular clinical course especial attention is given to the early recognition of the deforming diseases of childhood, also to the symptomatology, pathology and differential diagnosis of chronic and progressive deformities, including the mechanical and operative treatment.

In detail, the course consists of practical illustrations of methods of treatment, the apparatus used being thoroughly explained both in construction and in principle, attention being called to even minute points of construction and use. The operative side is fully dwelt upon, the indications for operative interference as an adjunct to the mechanical work being demonstrated. Ample clinical material is provided, and models of conventional forms of apparatus are placed at the disposal of students.

In the section and laboratory work the student is required to assist in the management of selected cases, to familiarize himself with the various methods of treatment, to construct the simpler forms of apparatus, to secure a practical knowledge of the details of construction of the more complicated instruments and to familiarize himself with the pathological conditions existing in the deformities of childhood.

A practical departure will be inaugurated in the Department of Orthopædics by making a fully equipped workshop the laboratory of orthopædic instruction.

CURRICULUM.

FIRST YEAR.

1. Anatomy.—One lecture each week on the applied anatomy of the bones and joints, following the recitation on these subjects. Recitations two hours each week. Section demonstration one hour each week to each section. Dissection, three to five courses of four weeks each, two or more hours daily.

2. Chemistry and Physics.—Two lectures each week on physics. Recitations two hours each week on chemistry and chemical laboratory six hours each week for half the session.

3. Physiology.—One hour of recitation each week. One lecture a week during the first half and two lectures a week during the second half of the session.

4. Histology.—Recitations one hour and laboratory four hours each week for half the term.

5. Materia Medica.—Laboratory work six hours each week for half the session.

The class is divided into sections for recitations and laboratory exercises, and the sections are so arranged that the work in the different laboratories is evenly distributed throughout the term. In the course of the recitations written reviews are held every few weeks, the papers of which are examined by the professors of the respective branches.

SECOND YEAR.

1. Anatomy.—Surgical and Regional Anatomy and Embryology. Three lectures weekly. Recitation one hour each week. One demonstration lecture weekly. Section demonstrations one hour each week. Dissection, one to three courses of four weeks each, two or more hours daily.

2. Organic and Physiological Chemistry.—Two lectures each week. Recitation once a week.

3. Physiology.—Recitations two hours each week, including a review of the work of the first year. Two lectures a week dur-

ing the first half and one lecture a week during the second half of the session.

4. **Materia Medica.**—Recitations two hours each week.
5. **Therapeutics.**—One lecture each week.
6. **Medicine.**—Recitation one hour weekly.
7. **Surgery.**—Recitations two hours weekly.
8. **Obstetrics.**—One recitation weekly.
9. **Pathology.**—One recitation weekly.
10. **Bacteriology.**—Laboratory six hours twice a week for one quarter of the year.

11. **Physical Diagnosis in Sections,** in the dispensaries and hospitals.

The second-year class is divided into sections for recitations, laboratory work and physical diagnosis. Written reviews are held during the course of recitations.

The study of the following branches is completed during the second year, and the examinations on them are final: (1) Anatomy (written and practical); (2) Chemistry and Physics; (3) Materia Medica; (4) Physiology.

THIRD YEAR.

1. **Medicine.**—Recitations two hours each week. Physical diagnosis in sections in the hospital. General medical diagnosis in sections at the bedside. General medical clinics two hours each week in Bellevue Hospital. Ward visits in small sections with the Professor and Clinical Professors of Medicine in Bellevue and other hospitals. Ten introductory lectures.

2. **Pathology.**—Lecture one hour weekly. Recitations one hour each week throughout the year.

3. **Pathological Laboratory.**—Pathological anatomy six hours each week for half the term.

4. **Therapeutics.**—Lectures one hour each week; one hour a week bedside teaching in Bellevue Hospital throughout the year. Clinic once a week. Recitations one hour weekly.

5. **Obstetrics.**—Two illustrative lectures weekly. One recitation weekly.

6. Gynæcology.—Clinic in obstetrics and gynæcology once a week. Recitation one hour each week.

7. Surgery.—Lectures twenty hours. General surgical clinics, two each week. Bedside teaching, diagnosis and history-taking in sections, in Bellevue Hospital. Ward work in small sections in Bellevue, St. Francis and the New York hospitals with the Professor and Clinical Professors of Surgery. Recitations on regional surgery two hours weekly.

8. Hygiene and Toxicology.—Lecture one hour each week.

9. Diseases of Children.—Clinic one hour each week.

10. Diseases of the Nervous System.—Lecture one hour each week for half the term.

11. Dermatology.—Clinic one hour a week for one-third of the year.

12. Laryngology and Rhinology.—Clinic one hour a week for one-third of the year.

13. Ophthalmology.—Clinic one hour a week.

14. Otology.—Clinic one hour a week for one-third of the year.

15. Genito-Urinary Surgery.—Clinic one hour a week for half the year.

16. Orthopædic Surgery.—Clinic one hour a week.

FOURTH YEAR.

1. Medicine.—Ward work in the hospitals. General medical clinics twice a week. Exercises in history-taking and in clinical microscopy continued. Recitations, conferences.

2. Surgery.—Ward work in the hospitals. General surgical clinics twice a week. Section work and clinics in the special branches. Operative surgery in sections.

3. Therapeutics.—Clinical instruction in Bellevue Hospital. Section work in the hospital dispensary in the treatment of diseases and in the writing of prescriptions.

4. Obstetrics.—Attendance upon cases of confinement. Manikin practice.

5. **Gynæcology.**—Clinics and section demonstrations.
6. **Diseases of Children.**—Section teaching three hours each week. Clinical microscopy.
7. **Nervous Diseases.**—Section work one hour a week in Bellevue Hospital.
8. **Mental Diseases.**—Clinics once a week.
9. **Dermatology.**—Section work.
10. **Laryngology and Rhinology.**—Section work.
11. **Ophthalmology.**—Section work.
12. **Otology.**—Section work.
13. **Genito-Urinary Surgery.**—Section work.
14. **Orthopædic Surgery.**—Section work.
15. **Hygiene.**—Two lectures a week for two months. Section work and laboratory demonstration.
- 16.—**Review Recitations.**—In all major branches for State Board Examinations.

COURSES OF INSTRUCTION AS GIVEN AT ITHACA.

FIRST YEAR.

1. **Anatomy.** One lecture each week on the applied anatomy of the bones and joints, following the recitation on these subjects, and section demonstrations. Recitations two hours each week. Dissection, three to five courses of four weeks each, two or more hours daily. Dr. Coville.
2. **General Inorganic Chemistry,** as follows, all the subdivisions of the work being required :
 - a.* Lecture. Two sections. Professor Caldwell.
 - b.* Recitation. In sections, as assigned. Instructor Kortright.
 - c.* Laboratory Practice. One hour (two and one-half hours' actual practice), in sections, as assigned. Instructor Kortright.
3. **Short course in Experimental Physics.** Two hours. Lectures. Professor Nichols.
4. **Physiology.** Fall term. Two hours. Lectures. Professor Wilder.

5. Comparative Physiology of the circulation, digestion, respiration and excretion. Fall, winter and spring. One hour. Dr. Fish.

6. Two hours of recitation each week winter and spring. Assistant Claypole.

7. Microscopy, Histology and Embryology. The Microscope and Microscopical Methods. First half of fall term. Five hours. Two lectures and three hours of laboratory work. Vertebrate Histology. Last half of the fall term and the winter term. Five hours. Two lectures and three hours of laboratory work. Vertebrate Embryology. Spring term. Five hours. Three lectures and two hours of laboratory work. Professor Gage and Assistant Professor Kingsbury and Assistants Claypole, Mercer and Flocken.

8. Materia Medica. Laboratory work two hours each week for the winter term. Assistant Professor Fish and Assistant Myers.

SECOND YEAR.

1. Anatomy. Surgical and Regional Anatomy. Two lectures weekly. Recitation one hour each week. One demonstration one hour each week. Dr. Coville. Dissection, one to three courses of four weeks each, two or more hours daily. Dr. Coville and Instructor Mix.

2. Organic Chemistry. Three lectures each week, fall term. Dr. Orndorff.

3. Toxicological Chemistry. Two hours laboratory, fall term. Dr. Chamot.

4. Physiological Chemistry. Lectures three hours weekly, winter and spring terms. Dr. Orndorff. Laboratory two hours weekly, winter and spring. Dr. Orndorff and Assistant Teeple.

5. Physiology. Lecture one hour weekly, fall and winter. Laboratory two hours weekly, fall term. Dr. Fish.

6. Recitations one hour weekly for the year. Assistant Claypole.

7. Materia Medica. Two recitations each week. Assistant Myers.

8. Therapeutics. One lecture each week. Dr.

9. Medicine. Recitation one hour weekly. Dr.

10. Surgery. Recitations two hours weekly. Dr.

11. Obstetrics. One illustrative lecture weekly. One recitation weekly. Dr. —.

12. Pathology. Two recitations weekly. Dr. Moore and Instructor Wright and Assistant Burnett.

13. Bacteriology. Lecture and recitation. Fall, winter and spring. One hour. Professor Moore. Laboratory work. Fall, winter and spring. Two hours. Professor Moore, Instructors Reed and Wright.

14. Physical Diagnosis in Sections. Dr.

The second-year class is divided into sections for recitations, laboratory work and physical diagnosis. Written reviews are held in the course of the recitations.

The study of the following branches is completed during the second year and the examinations on them are final : (1) Anatomy (written and practical) ; (2) Chemistry ; (3) Materia Medica ; and (4) Physiology.

SCHEDULE OF HOURS OF INSTRUCTION.

[In the following schedule of studies the hours designated for Ithaca are university hours, of which the unit is, for lectures and recitations, one actual hour ; and for dissections and laboratory work, two and one-half actual hours.]

<i>Freshman year.</i>	1st Term.	2d Term.	3d Term.
	<i>(As given at Ithaca.)</i>		
Anatomy	3	3	3
Dissection	3	3	3
Physics	2	2	2
Inorganic Chemistry .	3	3	3
Physiology	2	2	2
Comparative Physiol. .	1	1	1
Microscopy, Histology and Embryology }	2	2	3
Laboratory	3	3	2
Materia Medica Lab. .	. . . . .	2	

<i>Sophomore Year.</i>	1st Term.	2d Term.	3d Term.
<i>(As given at Ithaca.)</i>			
Anatomy	4	4	4
Dissection . . . . .	. . . . .	3	3
Organic and Physio- logical Chemistry (Lectures and Lab- oratory Work) }	3	3	3
Chemical Labora- tory for Physiologi- cal and Toxicologi- cal Chemistry and Lectures }	2	2	2
Physiology	4	2	1
Materia Medica	2	2	2
Therapeutics	1	1	1
Medicine	1	1	1
Surgery	2	2	2
Obstetrics	2	2	2
Pathology	1	1	1
<i>Junior Year.</i> }	In New York City.		
<i>Senior Year.</i> }	As per schedule.		

(The right is reserved to make such changes in the detail of the curriculum as experience may prove desirable.)

EXAMINATIONS.

REQUIREMENTS FOR ADVANCEMENT IN COURSE.

Students are advanced in course from one year to the next upon passing examinations in the work of that year. As in the academic department of the University, the work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year. Students who have not succeeded in passing all their examinations will be allowed to enter upon the next year's studies, according to the conditions specified for each year of the course as given farther on,

Examinations for advancement in course, graduation and admission to advanced standing are held at the close of the year on the work of the year. In each laboratory course extending through a part of the year only the examination is held at the close of the course.

Examinations for conditioned students and those desiring admission to advanced standing who have not taken the spring examinations are held during the first fortnight of the fall term.

The subjects examined upon are divided into major and minor subjects.

The minor subjects embrace laboratory courses and those in which instruction is given by recitations only.

Subjects of Examination for Admission to the Second Year.

Major Subjects.. Anatomy.

Chemistry and Physics.

Physiology.

Minor Subjects.. Histology.

Bacteriology.

Materia Medica.

Conditions allowed : 2 Major and 1 Minor ; 2 Minor and 1 Major ; 1 Major and 3 Minor.

NOTE 1. In each of the laboratory courses of the first and subsequent years, students whose marks fall below a certain percentage will be allowed one re-examination within two weeks of the completion of the course, failing in which they must repeat the laboratory course with the next succeeding section.

Students whose marks fall below this percentage in the chemical laboratory cannot be re-examined, but must repeat the course with the next succeeding section.

NOTE 2. In each of those branches in which recitations are held throughout the year, there shall be two written reviews conducted by tutors and supervised by the professor in charge of the department, and also a final examination conducted by the professor himself at the close of the year. The two written reviews shall be held, the one about the end of November, the other about the close of February.

Major Subjects..Anatomy.
Chemistry.
Materia Medica.
Physiology.

Minor Subjects..Medicine.
Physical Diagnosis.
Surgery.
Obstetrics.
Pathology.

Conditions allowed : 2 Major and 2 Minor ; 3 Minor and 1 Major ; or 4 Minor subjects.

(See Notes 1 and 2.)

Major Subjects.. Hygiene and Toxicology.
Pathology.

Minor Subjects.. Obstetrics.
Medicine.
Surgery.
Therapeutics.
Gynæcology.
Diseases of Children. } Clinical
Diseases of the Nervous System. } Paper.

Conditions allowed : 2 Major and 2 Minor ; 3 Minor and 1 Major.

(See Notes 1 and 2.)

Major Subjects..Medicine.
Surgery.
Gynæcology.
Obstetrics.
Therapeutics.

Special Branches :

Clinical Paper.	{	Mental Diseases.
		Ophthalmology.
		Rhinology and Laryngology.
		Dermatology.
		Genito-Urinary Diseases.
	{	Orthopædics.

Minor Subject..Obstetrics (manikin course).

Students conditioned in only one subject at the end of the fourth year, will be given an opportunity to make up the condition within two weeks. If the second examination is satisfactory he may receive his degree at the Commencement at Ithaca.

Those conditioned in more than one subject or who fail to pass in the second examination just mentioned must repeat the work of the fourth year.

REQUIREMENTS FOR GRADUATION.

1. Candidates for the degree of doctor of medicine must have studied medicine for four full years in an accredited medical college, and the fourth year at least must have been spent in the Cornell University Medical College.

2. Candidates must present satisfactory evidence of good moral character and of being not less than twenty-one years of age.

3. Candidates must file with the Secretary of the Faculty the Regents' Medical Student's certificate as evidence of having complied with the requirements for admission (see page 25).

4. Candidates must have taken two courses of practical anatomy (see page 40). They must, further, have taken the regular course of two weeks at the Mothers' and Babies' Hospital.

5. In addition to the yearly examinations above specified for advancement in course candidates must pass at the end of the fourth year examinations in medicine, surgery, therapeutics, obstetrics and gynæcology, including the special branches as are specified on (pages 75, 76.)

6. Candidates rejected at the final examination will not be re-

examined until after having repeated their fourth year of study.

7. The degree will not be conferred upon any candidate who absents himself from the Public Commencement without the special permission of the Faculty.

8. The Faculty reserves the right to terminate the connection of any student with the institution *at any time* on the ground of what they may deem moral or mental unfitness for the profession, or improper conduct while connected with the College.

REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN NEW YORK STATE.

All requirements for admission should be filed at least one week before examination.—They are as follows :

1. Evidence that applicant is more than twenty-one years of age (Form 1).

2. Certificate of moral character from not less than two physicians in good standing (Form 2).

3. Evidence that applicant has the general education required preliminary to receiving the degree of bachelor or doctor of medicine in this State (medical student's certificate. See examination handbook).

4. Evidence that applicant has studied medicine not less than four full school years of at least nine months each, in four different calendar years, in a medical school registered as maintaining at the time a satisfactory standard. New York medical schools and New York medical students shall not be discriminated against by the registration of any medical school out of the State, whose minimum graduation standard is less than that fixed by statute for New York medical schools.

The increase in the required course of medical study from three to four years did not take effect till January 1, 1898, and does not apply to students who matriculated before that date and will receive the degree of M.D. before January 1, 1902 (Form 1).

First exemption : "The Regents may in their discretion accept as the equivalent for any part of the third and fourth requirement,

evidence of five or more years' practice of medicine, provided that such substitution be specified in the license."

5. Evidence that applicant "has received the degree of bachelor or doctor of medicine from some registered medical school, or a diploma or license conferring full right to practise medicine in some foreign country" (Form 3 of original credentials).

6. The candidate must pass examinations in anatomy, physiology and hygiene, chemistry, surgery, obstetrics, pathology and diagnosis, therapeutics, practice and materia medica. The questions "shall be the same for all candidates, except that in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate and shall be in harmony with the tenets of that school as determined by its State Board of Medical Examiners."

Second exemption : "Applicants examined and licensed by other State examining boards registered by the Regents as maintaining standards not lower than those provided by this article, and applicants who matriculated in a New York State medical school before June 5, 1890, and who received the degree of M.D. from a registered medical school before August 1, 1895, may, without further examination, on payment of \$10 to the Regents and on submitting such evidence as they may require, receive from them an indorsement of their licenses or diplomas, conferring all rights and privileges of a Regents' license issued after examination."

7. A fee of \$25 payable in advance.

HOSPITAL APPOINTMENTS.

The students and graduates of the Cornell University Medical College are entitled to compete on equal terms with those of other colleges for positions on the resident staff of Bellevue Hospital and the other hospitals of the city.

Some of these hospitals are : The City, Harlem, Gouverneur, New York, St. Luke's, Roosevelt, Presbyterian, St. Vincent's, St. Francis, Mount Sinai, German, and Hudson Street hospitals and the hospitals in Brooklyn and Jersey City, Newark, Paterson etc.

The requirements, the times of examination and the period of service differ. The details can be learned by application, written or in person, to the superintendents or the secretaries of the medical boards of the various hospitals, or to the Secretary of the Cornell University Medical College, East 26th Street, New York City.

CHARGES FOR INSTRUCTION.

First Year.

Registration ¹	\$5.00	
Tuition	150.00	
Laboratory fees	35.00	
	<hr/>	\$190.00

Second Year.

Tuition	150.00	
Laboratory fees	30.00	
	<hr/>	180.00

Third Year.

Tuition	150.00	
Laboratory fees	30.00	
	<hr/>	180.00

Fourth Year.

Tuition	150.00	
Laboratory fees	25.00	
Graduation fee ²	25.00	
	<hr/>	200.00

Tickets must be taken out and paid for at the beginning of the session.

¹ The registration fee is payable only once, on entrance.

² The graduation fee is payable on registering for graduation. The tuition fees for the first two years at Ithaca are identical with those of the same period in New York. All fees are payable in advance and no rebate will be made.

FEES FOR SPECIAL STUDENTS.

The Dissecting ticket may be taken out separately after registration.

Registration.....	\$5.00
Dissection.....	15.00
Laboratory course in chemistry.....	20.00
Laboratory course in normal histology.....	20.00
Laboratory course in pathology.....	20.00
Laboratory course in materia medica.....	20.00
Operative surgery on the cadaver, including material.....	25.00
Clinical microscopy.....	20.00
Bacteriology.....	20.00
Special courses.....	25.00

Fees must be paid according to the foregoing schedule by all matriculates, including those who have already received the degree of M.D.

BOARD.

Arrangements are made by the Clerk so that each matriculate of the College will be furnished with lists of good boarding-places at a convenient distance from the College Building, at the very low rate of \$5 to \$6 per week. Further information may be obtained from the Clerk, at his office in the College, or from the Secretary of the Intercollegiate Young Men's Christian Association, 129 Lexington Avenue.

SUGGESTION.

It would be to the advantage of students if they would register a few days in advance of the opening exercises, secure boarding-places and purchase books, so that their studies may not be interrupted in the beginning. The Clerk is in his office every day after September 1, from 10 A.M. to 2 P.M.,

SUMMER SCHOOL.

During the summer of 1899 the Cornell University establishes a Summer School of Medicine in New York City. The courses will cover the period from May 15 to August 1, and the instruction will be chiefly clinical, with laboratory work and quizzes added.

The instruction has been especially arranged to economize time and furnish the greatest amount of varied clinical practice possible.

The courses will be given at the various hospitals and dispensaries by the physicians and surgeons on duty. In addition to the clinical work, practical exercises will be offered in the several laboratories of the College by the instructors in charge. These laboratory courses will embrace instruction in normal and pathological histology, bacteriology, clinical microscopy, chemistry and pharmacognosy and pharmacy.

Quizzes on the practical medical branches will be conducted by instructors appointed by the Faculty. While the instruction is intended primarily for the present members of the Cornell University Medical College, it will be open to both graduates and undergraduates of other recognized medical schools upon the payment of the registration fee of five dollars (\$5) in addition to the regular fees specified on page 4.

LIST OF INSTRUCTORS.

- WM. M. POLK, M.D., LL.D., Dean, *Instructor in Gynecology.*
 CHARLES F. ADAMS, M.D., *Instructor in Surgery.*
 JOHN ASPELL, M.D., *Instructor in Gynecology.*
 CHARLES C. BARROWS, M.D., *Instructor in Gynecology.*
 PEARCE BAILEY, M.D., *Instructor in Diseases of the Nervous System.*
 RUSSELL BELLAMY, M.D., *Instructor in General Medicine.*
 RICHARD EWELL BROWN, M.D., *Instructor in General Medicine.*
 W. DUFF BULLARD, M.D., *Instructor in Surgery.*
 BERTRAM H. BUXTOM, M.D., *Instructor in Bacteriology.*
 FOLLEN CABOT, M.D., *Instructor in Genito-Urinary Diseases.*

- CHARLES N. BANCKER CAMAC, M.D., *Instructor in Clinical Microscopy.*
 WARREN COLEMAN, M.D., *Instructor in Clinical Medicine.*
 LEWIS A. CONNER, M.D., *Instructor in Clinical Medicine and Gross Pathology.*
 EARLE CONNER, M.D., *Instructor in Otology.*
 WALTER A. DUNCKEL, M.D., *Instructor in Diseases of Children.*
 MARTIN J. ECHEVERRIA, M.D., *Instructor in Genito-Urinary Diseases.*
 JEREMIAH S. FERGUSON, M.D., *Instructor in Histology.*
 JOSEPH E. FRANKEL, M.D., *Instructor in Neurology.*
 WM. C. GILLEY, M.D., *Instructor in Minor Surgery.*
 FREDERICK W. GWYER, M.D., *Instructor in Surgical Diagnosis.*
 JOHN A. HARTWELL, M.D., *Instructor in Surgery.*
 FORBES HAWKES, M.D., *Instructor in General Surgery.*
 JOSEPH A. KENEFICK, M.D., *Instructor in Laryngology and Rhinology.*
 ARNOLD H. KNAPP, M.D., *Instructor in Ophthalmology.*
 SHERWOOD B. IVES, M.D., *Instructor in Materia Medica.*
 LINNÆUS E. LAFÈTRA, M.D., *Instructor in Children's Diseases.*
 ALEXANDER LAMBERT, M.D., *Instructor in Clinical Medicine.*
 THURSTON G. LUSK, M.D., *Instructor in Dermatology.*
 FRANCIS W. MURRAY, M.D., *Instructor in Surgery.*
 CHARLES E. NAMMAC, M.D., *Instructor in Clinical Medicine.*
 JAMES E. NEWCOMB, M.D., *Instructor in Laryngology.*
 NATHANIEL NORTON, M.D., *Instructor in General Medicine.*
 LOUIS W. RIGGS, Ph.D., *Instructor in Laboratory Chemistry.*
 WILLIAM SHANNON, M.D., *Instructor in Children's Diseases.*
 EDMUND P. SHELBY, M.D., *Instructor in Pharmacognosy.*
 OTTO H. SCHULTZE, M.D., *Instructor in Pathological Histology.*
 FREDERICK P. SOLLEY, M.D., *Instructor in General Medicine.*
 FRANKLIN M. STEPHENS, M.D., *Instructor in Otology.*
 WILLIAM F. STONE, M.D., *Instructor in Surgery.*
 GEORGE K. SWINBURNE, M.D., *Instructor in Genito-Urinary Diseases.*
 FIELDING L. TAYLOR, M.D., *Instructor in Minor Surgery.*
 ALFRED L. TAYLOR, M.D., *Instructor in Medicine.*
 BENJAMIN T. TILTON, M.D., *Instructor in Surgery and Genito-Urinary Diseases.*
 HENRY H. WHITEHOUSE, M.D., *Instructor in Dermatology.*
 WILLIAM R. WILLIAMS, M.D., *Instructor in Medical Diagnosis.*
 GEORGE WOOLSEY, M.D., *Instructor in Surgical Diagnosis.*
 GEORGE G. WARD, JR., M.D., *Instructor in Obstetrics.*
 GEORGE R. WHITE, M.D., *Instructor in Gynæcology.*

PLAN OF INSTRUCTION IN SUMMER SCHOOL.

I. Subjects.

Clinical	{	Medical . . .	{	Medical Diagnosis and Treatment.
			{	Physical Diagnosis.
		Surgical . . .	{	Surgical Ward Work.
			{	Surgical Diagnosis and History-Taking.
			{	Minor Surgery.
Laboratory . . .	{	Special . . .	{	Diseases of Children.
				Skin.
				Eye and Ear.
				Genito-Urinary.
				Nose and Throat.
				Diseases of Women.
	{		{	Clinical Microscopy.
				Pathological Anatomy—Autopsies.
				Pharmacognosy and Pharmacy.
				Bacteriology.
				Clinical Chemistry.
				Histology.

2. Division of Instruction.

(a) The instruction is divided into two periods of about five weeks each. Students may take during each period one course in Medicine and one course in Surgery.

(b) Students may choose two courses in different special branches. One to be taken during the first five weeks, the other during the second five weeks.

(c) Students may choose two laboratory courses, which are given only in the first six weeks.

(d) Students may choose one or more of the following subjects in each of which there will be a quiz one hour a week for ten weeks, but students are advised not to take, in all, more than seven courses including quizzes.

Anatomy.

Surgery.

Materia medica and therapeutics.

Practice of medicine.

Obstetrics and gynæcology.

3. Special Information.

(a) Students who have completed their first year only may elect the laboratory courses exclusively, omitting the clinical courses.

(b) The summer course offers special advantages to students who have completed one or more courses of medical study in other accredited colleges, and intend to enter advanced classes in the Cornell University Medical College.

The selection of clinical and laboratory courses being optional with the student, he may select the course or courses in which he desires preparation for the examinations required for entrance to advanced standing.

If desired, the examinations for advanced standing may be taken at the close of the session.

(c) Surgical diagnosis and history-taking is a practical course covering in detail methods of history-taking and examination of patients. This course is limited to students who have completed at least two years of medical study.

4. Fees for the Course—Payable in Advance.

Registration \$5.00

(Students of the Cornell University Medical College are exempt from this fee.)

Fees for the summer course (including quizzes) . . \$40.00

Students who register for the summer course are not required to pay the registration fee for the winter session.

For further particulars, address the Secretary, Cornell University Medical College, East 26th Street, New York City.

TEXT-BOOKS.

As a rule only the latest editions of text-books should be purchased.

Anatomy—Gerrish, \$— ; Morris, \$6.00 ; Gray, \$5.60 ; Quain, \$25.20 ; Haynes, *Guide to Dissection*, \$.80 ; Treves, *Surgical Applied Anatomy*, \$1.60 ; Haynes, *Manual of Anatomy*, \$2.50.

Physiology—Flint, \$4.80 ; Stewart, \$3.50 ; Foster, \$3.60 ; Landois.

Histology—Stohr, \$3.00 ; Schaefer, *Essentials of Histology*, \$2.40 ; Weysses's *Epitome of Human Histology*, \$1.50.

Bacteriology—Sternberg's *Manual of Bacteriology*, \$8.00 ; Abbott, \$2.20.

Chemistry—Witthaus, *Manual of Chemistry*, fourth edition, \$3.25 ; Witthaus, *Laboratory Course*, fourth edition, \$1.00 ; Ganots, *Physics*, \$4.00.

Medicine—Second year, Lockwood, \$2.50 ; third year, Tyson, \$5.50 ; Da Costa, *Medical Diagnosis*, \$4.80 ; or for reference, Loomis-Thompson, *American System of Practical Medicine*.

Surgery—Tillman, 3 vols., \$15.00 ; *American Text-Book*, \$7.00 ; Parks, *Surgery*, 2 vols., \$9.00 ; Stimsons, *Fractures and Dislocations*, \$5.00 ; Stimson's *Operative Surgery*, \$3.00 ; Dennis, *System of Surgery*, \$6.00 per volume.

Genito-Urinary—White and Martin, \$6.00 ; Hyde and Montgomery, \$2.50.

Obstetrics—Hurst's *Obstetrics*, \$5.00 ; Winckel, \$5.00 ; Dorland, \$2.50.

Gynæcology—Penrose, \$3.50 ; Kelly, \$15.00 ; Pozzi, \$5.50.

Materia Medica and Therapeutics—Second year, Whites, *Materia Medica and Therapeutics*, \$3.00 ; Coleman, *Syllabus of Materia Medica*, \$1.00 ; third year, Hare, *Practical Therapeutics*, \$3.00 ; Thompson, *Practical Dietetics*, \$5.00.

Pathology—Delafield, *Pathological Anatomy*, \$5.00 ; Ziegler, *General Pathology*, \$5.00.

Dermatology—Crocker, \$— ; Kaposi, \$4.00 ; Jackson, \$2.50.

Ophthalmology—Noyes, \$5.00 ; Schweinitz, \$4.00 ; Norris and Oliver, \$4.00.

Otology—Bacon and Blake on the Ear, \$2.00.

Nervous Diseases—Dana, \$3.50 ; Gower, \$7.00 ; Dercum, \$6.00.

Diseases of Children—An American Text-Book of the Diseases of Children, Starr, \$7.00 ; *Medical Diseases of Infancy and Childhood*, Williams, \$2.50.

Goulds, *Student's Medical Dictionary*, \$3.25.

Dissecting Cases—\$2.00 to \$5.00.

Text-books, etc., may be obtained from the Clerk at the College.

FIRST-YEAR CLASS—SESSION 1899-1900

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9	Histology— <i>R.</i>	Physiology Lecture After Jan. 1, 1900	Histology— <i>R.</i>	Physiology Lecture		
10	<i>A.</i> Anatomy <i>B.</i> Chemistry	<i>A.</i> Physiology <i>B.</i> Anatomy <i>C.</i> Chemistry	<i>A.</i> Chemistry <i>B.</i> Physiology <i>C.</i> Anatomy	<i>A.</i> Anatomy <i>B.</i> Chemistry <i>C.</i> Physiology	<i>B.</i> Anatomy <i>C.</i> Chemistry	<i>C.</i> Anatomy <i>A.</i> Chemistry
11	Dissection	<i>A.</i> Anatomy Demonstration	Dissection	<i>B.</i> Anatomy Demonstration	Anatomy Lecture	<i>C.</i> Anatomy Demonstration
12						
1	Histological Laboratory	Histological Laboratory	Dissection	Materia Medica Laboratory	Materia Medica Laboratory	Materia Medica Laboratory
2	Histological Laboratory	Histological Laboratory	Dissection	Materia Medica Laboratory	Materia Medica Laboratory	Materia Medica Laboratory
3	Physics Lecture	Chemical Laboratory	Physics Lecture	Chemical Laboratory	Chemical Laboratory	Dissection
4	Dissection	Chemical Laboratory	Dissection	Chemical Laboratory	Chemical Laboratory	Dissection
5	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection

NOTE—*A.* *B.* *C.* *R.* = Recitations.

NOTE—From 1 to 5 o'clock students are expected to dissect, when not engaged in other work.

SECOND-YEAR CLASS—SESSION 1899-1900

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9	Physiology Lecture Until Dec. 25, 1899	B. Physiology A. Anatomy C. Chemistry	Physiology Lecture	B. Anatomy A. Chemistry C. Physiology	B. Obstetrics A. Physiology C. Anatomy	B. Chemistry A. Obstetrics C. Physiology
10	B. Medicine C. Surgery A. Physiology	Anatomy Lecture	Anatomy Lecture	Anatomy Lecture	Anatomy Demonstration	C. Obstetrics B. Physiology A. Pathology
11	A. Materia Medica C. Medicine B. Pathology	A. Surgery B. Materia Medica Physical Diagnosis Dr. BYARD	A. Medicine B. Surgery C. Materia Medica	A. Materia Medica C. Surgery Physical Diagnosis Dr. BYARD	A. Surgery B. Materia Medica C. Pathology	B. Surgery C. Materia Medica Physical Diagnosis Dr. BYARD
12						
1	A. Anatomy Demonstration	Dissection	Chemistry Lecture	Bacteriological Laboratory Dr. BUXTON	Bacteriological Laboratory Dr. BUXTON	Bacteriological Laboratory Dr. BUXTON
2	Dissection	B. Anatomy Demonstration	C. Anatomy Demonstration	Bacteriological Laboratory Dr. BUXTON	Bacteriological Laboratory Dr. BUXTON	Bacteriological Laboratory Dr. BUXTON
3	Dissection	Chemistry Lecture	Dissection	Dissection	Materia Medica and Therapeutics Lecture Prof. LOOMIS	Dissection
4	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection
5	Dissection	Dissection	Dissection	Dissection	Dissection	Dissection

NOTE—A, B, C, = Recitations.

NOTE—From 1 to 5 o'clock students are expected to dissect, when not engaged in other work.

THIRD-YEAR CLASS—SESSION 1899-1900

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9	A. Medicine B. Surgery C. Gynecology Pathological Laboratory Clinical Microscopy	A. Gynecology B. Medicine C. Surgery Pathological Laboratory	A. Surgery B. Gynecology C. Medicine. Pathological Laboratory	A. Medicine B. Surgery C. Therapeutics Pathological Laboratory	A. Therapeutics B. Medicine C. Surgery Pathological Laboratory Clinical Microscopy	A. Surgery B. Therapeutics C. Medicine Pathological Laboratory
10	Pathological Laboratory Clinical Microscopy	Pathological Laboratory	Pathological Laboratory	Pathological Laboratory	Pathological Laboratory Clinical Microscopy	Pathological Laboratory
11	Pathological Laboratory Clinical Microscopy	Pathological Laboratory	Pathological Laboratory	Pathological Laboratory	Pathological Laboratory Clinical Microscopy	Pathological Laboratory
12						
1	*	*	*	*	*	*
2	Therapeutics Lecture Prof. LOOMIS	Ophthalmology Prof. BULL Oct., Nov., Dec., Jan. Dermatology Prof. ELLIOT Feb., Mch., Apr.	Surgery Clinic Prof. STIMMONS, GWYER College	Children's Diseases Clinic Prof. WINTERS College	Surgery Lecture 20 hours Prof. STIMMONS	*
3	Gynecology Clinic Prof. POLK Bellevue Hospital	Medicine Clinic Prof. LOOMIS Bellevue Hospital	Surgery Clinic Oct., Nov., Dec. Prof. DENNIS Genito-Urinary Clinic Jan., Feb., Mch., Apr. Prof. ALEXANDER	Surgery Clinic Prof. STIMMONS, WOOLSEY Bellevue Hospital	Medicine Clinic Prof. THOMPSON Bellevue Hospital	*
4	Toxicology Lecture Prof. WITTHAUS	Orthopaedics Prof. SHAFER Oct., Nov., Dec., Jan.	Otology Clinic Oct., Nov., Dec. Laryngology Clinic Dec., Jan., Feb.	Medicine Lecture 1st to 3 weeks Prof. THOMPSON	Nervous Diseases Lecture 10 weeks Clinics remainder of term Prof. DANA	*
5	A. Obstetrics	Obstetrics Lecture Prof. EDGAR	B. Obstetrics	Obstetrics Lecture Prof. EDGAR	C. Obstetrics	*

NOTE—A. B. C. = Recitations.

* Section work

FOURTH-YEAR CLASS—SESSION 1899-1900—Continued

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
3	Gynaecology Clinic Prof. POLK Bellevue Hospital	Medicine Clinic Prof. LOOMIS Bellevue Hospital	* Ophthalmology Prof. BULL Jan., Feb., Mch., Apr. N. Y. Eye and Ear Infirmary	Surgery Clinic Professors STIMSON and WOOLSEY Bellevue Hospital * Laryngology Dr. KENEFICK Jan., Feb., Mch., Apr.	Medicine Clinic Prof. THOMPSON Bellevue Hospital	* Children's Diseases Contagious Prof. WINTERS Willard Parker Hosp. * Jan., Feb. * Laryngology Dr. NEWCOMB Jan., Feb., Mch., Apr.
4	* Surgery Prof. DENNIS Oct., Nov., Bellevue Feb., Mch., St. Vincent * Surgery Prof. KAMMERER German and St. Fran- cis Hospitals * Medicine Prof. LAMBERT Dec., Jan., Feb.	* Medicine Dr. CONNER Oct., Nov., Dec. Hudson St. Hospital * Otology BACON Oct., Nov., Dec.	* Hygiene Oct., Nov. Dr. WILLIAMS	* Surgery Prof. DENNIS Oct., Nov., Bellevue Feb., Mch., St. Vincent * Surgery Prof. KAMMERER German and St. Fran- cis Hospitals * Otology BACON Oct., Nov., Dec.	* Medicine Dr. CONNER Oct., Nov., Dec. Hudson St. Hospital	* Medicine Section Prof. LAMBERT Bellevue Hospital Dec., Jan., Feb. * Nervous Diseases Drs. FRAENKEL and MUSKENS Bellevue Hospital
5	*	*	*	*	*	*
NOTE—A. B. = Recitations. * Section work						

The University reserves the right to make changes in the preceding schedules.

CORNELL UNIVERSITY MEDICAL COLLEGE.

MATRICULANTS.

Abbott, Wilson Ruffin, Ph.G.....	New York City
Adams, Edward.....	Stamford, Conn.
Allport, Henry Whiffle.....	Chicago, Ill.
Ambos, Louis.....	New York City
Amster, Julius Louis.....	New York City
Anderson, Robert Burns.....	Jersey City, N. J.
Atwater, Henry Harrison, Jr.....	Brooklyn, N. Y.
Auerbach, Maxime Arthur, Ph.G.....	New York City
Bailey, Percival Dee.....	Binghampton, N. Y.
Banks, Winifred Davey.....	Port Jervis, N. Y.
Bartholomew, Ellen E.....	Ansonia, Conn.
Becket, George Crockett.....	New York City
Benedict, Chauncy Mott.....	Salt Lake City, Utah
Berenson, Jacob.....	New York City
Bernstein, Abraham.....	New York City
Berry, Inslee Hopper.....	New York City
Blass, Barney.....	New York City
Bock, Rudolph.....	New York City
Bradley, Francis Sage.....	Leonia, N. J.
Brodman, Henry.....	New York City
Broter, Louis.....	New York City
Brown, Mary Hess.....	Columbus, O.
Buck, Guerdon Conde.....	Plattsville, Wis.
Bunnell, George Lincoln, Ph.B.....	New York City
Cantle, William Henry.....	New York City
Carpenter, Guy Sexton.....	New York City
Carter, Charles Edgerton.....	New York City

Chasins, Charles Louis.....	New York City
Citron, Gerson B.....	New York City
Clark, Coryell.....	Nichols, N. Y.
Connell, Edward Joseph, Jr., A.B.....	Bedford Park, N. Y.
Coolidge, Emelyn Lincoln.....	Washington, D. C.
Cossitt, Harry A.....	Owasso, Mich.
Costigan, Leo Hubert.....	New York City
Creighton, Sally Robinson.....	New York City
Davidson, Louis Leopold.....	New York City
DeMund, Cornelius Abram.....	Ridgewood, N. J.
Diesel, Henry.....	Brooklyn, N. Y.
Doege, Herman Ernest.....	New York City
Druskin, Louis.....	New York City
Druskin, Samuel Jerome, B.S.....	New York City
Dunne, John Joseph, A.B.....	Fordham, N. Y.
Edlich, Theodore Julius, Ph.G.....	New York City
Edwards, Franklyn E., M.D.....	New York City
Ehrlich, Simon.....	New York City
Elkin, Alexander Rueben.....	New York City
Farrell, William Davidson.....	Mason City, Iowa
Fidler, Benjamin.....	New York City
Fincke, Harry Stark, Ph.G.....	Long Island City, N. Y.
Fleischhauer, David Simon.....	Reed City, Mich.
Fleming, Mark.....	Summit, N. J.
Fletcher, Frederick Wortman, Ph.G.....	Babylon, N. Y.
Flynn, Frederick L.....	New York City
Franca, Mario y Alvarez de la Campa.....	New York City
Frankel, Julius.....	New York City
Gettinger, Joseph Herman.....	New York City
Gingold, David.....	New York City
Ginzburgh, Isidor.....	New York City
Glazebrook, Francis Henry.....	Elizabeth, N. J.
Glucksman, George.....	New York City
Goldenberg, Jacob.....	New York City
Good, George.....	Jersey City, N. J.
Gordon, Elias Davis.....	New York City

Gordon, Mark.....	New York City
Gorton, James Treat, B.S.....	Yonkers, N. Y.
Gottesman, Max.....	New York City
Greene, James Sonnett.....	New York City
Grosner, Joel.....	New York City
Grove, Robert Kellogg, B.S.....	Buffalo, N. Y.
Gundacker, Henry John, A.B.....	New York City
Gutman, Jacob.....	New York City
Hall, Fred Guy.....	Lincoln, Neb.
Hamill, John Dunlap.....	New York City
Hammer, Alfred.....	New York City
Hand, Edward.....	Elizabeth, N. J.
Hatton, Julia Elizabeth.....	Augusta, Ga.
Hawley, George Waller, Ph.B.....	New York City
Heller, Jacob.....	New York City
Henkel, Emanuel Alexander.....	New York City
Henriquez, George Aloysious.....	New York City
Herzstein, Samuel.....	New York City
Hess, Ralph Jones, B.S.....	Salamanca, N. Y.
Hicks, Shirley, Nathaniel Combs.....	Rockville Centre, N. Y.
Hildreth, Edward Raymond, A.B.....	Bridge Hampton, N. Y.
Hilkowich, Abe Maurice.....	New York City
Hilsman, Agnew Hodge.....	Albany, Ga.
Hirschman, Leopold.....	Bronx, N. Y.
Hoffman, Isaiah Louis.....	Jersey City, N. J.
Holt, Corliss Mason.....	New York City
Isaacs, Julius.....	Brooklyn, N. Y.
Jacobs, Simon.....	New York City
Janson, Christian William.....	Brooklyn, N. Y.
Jean, George William, M.D.....	Danville, Ky.
Jenks, Nathan, B. S.....	New York City
Jones, William Joseph, Jr.....	New York City
Joyce, Lee Harold.....	New York City
Kahn, Robert Johnston.....	Yonkers, N. Y.
Kaplan, David Michael.....	New York City
Keays, Frederick Love, A.B.....	New York City

Kellogg, John Marshall, M.D.....	East Orange, N. J.
Kern, James Valentine.....	New York City
Kilbane, Edward Francis.....	New York City
Kingston, Augustine Thomas Vincent, A.B.....	New York City
Kirkwood, Allan Stewart.....	Yonkers, N. Y.
Kleinbaum, Edward.....	New York City
Kleinman, Morris.....	New York City
Knauss, Charles William.....	New York City
Koehler, Leopold Jacob.....	New York City
Kurtz, Henry Thomas.....	New York City
Landsman, Arthur Armin, Ph.G.....	New York City
Levy, William.....	New York City
Lewin, Samuel Aaron.....	New York City
Lewitt, Abraham Albert.....	New York City
Liebman, Samuel J.....	New York City
Lubman, Max.....	New York City
Lustgarten, Abraham.....	New York City
McCabe, V. Valens.....	Schenevus, N. Y.
McDonald, Robert Francis.....	New York City
McMenamin, Thomas Daniel.....	Bath, N. Y.
Malisoff, Abraham.....	New York City
Malone, Tucker A.....	New York City
Mandel, Louis.....	New York City
Mandelbaum, Abraham.....	Brooklyn, N. Y.
Manisof, Joseph.....	New York City
Meacham, Leslie James.....	New York City
Meehan, Francis Xavier.....	Jersey City, N. J.
Miltimore, Dean.....	Catskill, N. Y.
Mislig, Michael.....	New York City
Morris, James J.....	Franklin Furnace, N. J.
Mulholland, Joseph Augustus, A.B.....	Fordham, N. Y.
Nalitsky, David I.....	Bayonne, N. J.
Nathan, Solomon A.....	New York City
Needham, George G., M.D., A.M., Ph.G.....	New York City
Newhouse, Adelia Virginia.....	Clavington, O.
Nordbrock, Julius Adolf.....	Brooklyn, N. Y.

O'Connell, Delia Maria, A.B.....	Marlborough, Mass.
O'Grady, Eliza.....	Eastport, Me.
O'Hearn, Daniel Aloysius.....	Lowell, Mass.
Ortman, Robert.....	New York City
Paterno, Charles Vito.....	New York City
Peterson, Edward Wadsworth, M.D.....	Greensboro, Ala.
Pierson, John Corbin.....	New York City
Pobe, George Otto.....	Port Jervis, N. Y.
Polk, John Metcalfe, Ph.B.....	New York City
Rachlin, Nathan Hale.....	Brooklyn, N. Y.
Rapp, Rufus.....	New York City
Rappaport, Armin.....	New York City
Rea, Charles Lee.....	Carrollton, Mo.
Ritter, Isidor.....	New York City
Rochester, Gertrude.....	Jersey City, N. J.
Roof, Stephen White.....	New York City
Rosenberg, Aaron Joshua.....	New York City
Rosenbloom, Augustus A.....	Fulton, N. Y.
Ross, Cecil Metcalfe.....	Hackensack, N. J.
Schaefer, Louis, Ph.G.....	Brooklyn, N. Y.
Schmidt, Frederick G. E.....	Heryberg, Germany
Schneidenbach, Arthur J. M.....	New York City
Scott, Richard John Ernst, A.B., A.M., B.C.L....	New York City
Scudder, Ida Sophia.....	Madras Presidency, India
Sears, William Richard.....	Woodmere, N. Y.
Senftner, Herman Francis.....	New York City
Sheitlis, David.....	New York City
Shlenker, Milton A.....	Vicksburg, Miss.
Shoales, Walter A.....	Plymouth, N. Y.
Shutt, Margaret Taylor.....	Springfield, Ill.
Siebenborn, Henry A.....	New York City
Silk, Charles.....	New York City
Skernewich, Abram A.....	New York City
Smith, William Hereford, B.S.....	Danville, Ky.
Southerland, Susan George.....	Brooklyn, N. Y.
Spalding, Henry Jesse.....	New York City

Spivacke, Charles A.....	New York City
Stiefel, Isaac.....	New York City
Stigner, Per.....	New York City
Sullivan, Leon D.....	Lowell, Mass.
Sutherland, Wm. Henry.....	Canandaigua, N. Y.
Tallman, John Harold.....	Mt. Vernon, N. Y.
Tirman, Samuel.....	New York City
Tompkins, Vivian Suterius.....	Yonkers, N. Y.
Treat, Clerihew Rutan.....	Allenhurst, N. J.
Treize, John Davies.....	Brooklyn, N. Y.
Tustin, Ruth.....	Bloomsburg, Pa.
Tutschulte, Ernest.....	Brooklyn, N. Y.
Van Noort, Francis Joseph.....	Paterson, N. J.
Vogel, James Oswald.....	West Quincy, Mass.
von Roeder, Ludwig.....	Yorktown, Texas
Walker, William Henry, Jr.....	New York City
Warner, Alonzo.....	Newark, N. J.
Waterman, Paul.....	Westfield, Mass.
Watson, Samuel Parks.....	Rock Hill, S. C.
Weighart, Joseph Berry.....	New York City
Weinberg, Joseph Elias.....	New York City
Wheelwright, Joseph Storer.....	Bangor, Me.
Wilkes, James W.....	Columbia, Tenn.
Winick, Samuel.....	New York City
Woelfle, Henry Ewald.....	Newark, N. J.
Wohl, Albert A.....	New York City
Wolfert, Ludwig P.....	New York City
Yeomans, Frank Clark, A. B.....	New York City
Zipser, Benjamin William.....	New York City

MATRICULANTS AT ITHACA.

Allan, Edwin Phipps.....	New York City
Bloomingdale, Gertrude.....	Alabama
Bowen, Willis Elliott, Ph.G.....	Churchville, N. Y.
Caldwell, John Alexander, Jr.....	Cincinnati, O.
Canfield, Amos.....	Van Etten, N. Y.

Claypole, Agnes Mary, Ph.B.....	Akron, O.
Cleghorne, Guy Forsythe.....	Green Island, N. Y.
Doughty, Phebe Van Vlack, A.B., Ph.B.....	Matteawan, N. Y.
Dyer, Frank Merritt.....	Binghampton, N. Y.
Everett, Frederick.....	Potsdam, N. Y.
Faust, John Wesley.....	Poughkeepsie, N. Y.
Fletcher, George Hannibal.....	Ithaca, N. Y.
Huntoon, Frank McElroy.....	Port Byron, N. Y.
Jagle, Elizabeth Carlisle.....	Brooklyn, N. Y.
Johnston, Harry Isaac.....	Ovid, N. Y.
Knipe, Norman Leslie.....	Norristown, Pa.
Kyle, Thompson Galbraith.....	Ithaca, N. Y.
Losee, Mace Anderson.....	Livingstonville, N. Y.
MacDonald, Robert Stevenson.....	London, Ont.
Mix, Charles Melvin, A.B.....	Friendship, N. Y.
Myers, Burton Dorr, Ph.B.....	Attica, O.
Nelson, Staley Lyman.....	Hinsdale, N. Y.
Niles, Walter Lindsay.....	Lebanon, N. Y.
Page, Sophy Ellen.....	East Bethany, N. Y.
Palmer, William Hailes.....	Mechanicsville, N. Y.
Parker, Jason Samuel.....	Lyons, N. Y.
Pounds, Thomas Canfield.....	Breesport, N. Y.
Reed, Thurlow Weed.....	Hornellsville, N. Y.
Sears, Keith.....	Searsburg, N. Y.
Stern, Henry Michael.....	Rochester, N. Y.
Stone, Charles Lucius.....	Troy, N. Y.
Stroud, Bert Breneete, B.S., D.Sc.....	Forest Home, N. Y.
Sweetland, Edwin Regur.....	Dryden, N. Y.
Treat, Lillian Amelia.....	Auburn, N. Y.
Van Pelt, Harvey Loren.....	Ithaca, N. Y.
Vose, Roy Mandeville.....	Ithaca, N. Y.
Wagner, Charles P.....	Fort Plain, N. Y.
Waterman, Grace Salisbury.....	Worcester, N. Y.
Weiss, Julius.....	New York City
Wilson, Willets, Ph.G.....	Ithaca, N. Y.
Wright, Floyd Robins, A.B.....	Ithaca, N. Y.

CORNELL UNIVERSITY

COMPRISES THE FOLLOWING DEPARTMENTS

The GRADUATE DEPARTMENT (Degrees A. M., Ph. D., etc.)

The ACADEMIC DEPARTMENT, OR DEPARTMENT OF ARTS AND SCIENCES (Degree A. B.)

The COLLEGE OF LAW (Degree LL. B.)

The MEDICAL COLLEGE* (Degree M. D.)

The NEW YORK STATE VETERINARY COLLEGE (Degree D. V. M.)

The COLLEGE OF AGRICULTURE (Degree B. S. A.)

The NEW YORK STATE COLLEGE OF FORESTRY (Degree B. S. F.)

The COLLEGE OF ARCHITECTURE (Degree B. Arch.)

The COLLEGE OF CIVIL ENGINEERING (Degree C. E.)

The SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND MECHANICAL ARTS (Degree M. E.)

For copies of the University Register and for additional information, apply to

REGISTRAR, CORNELL UNIVERSITY,

Ithaca, N. Y.

* The full four-year course of the CORNELL UNIVERSITY MEDICAL COLLEGE is given in the City of New York, but the first half of it—the work of the first and second years—is also given at Ithaca, where it may be taken by men students, and where alone it can be taken by women students (for whom a home is provided in the Sage College for Women). Both men and women students must take the last two years of the course in New York City. Special announcements of the Medical College and information of every kind regarding it will be furnished on application to

SECRETARY, Cornell University Medical College,

East 26th Street, New York City.

C8142 me
1900/01

CORNELL UNIVERSITY MEDICAL COLLEGE

IN NEW YORK CITY

UNIVERSITY OF ILLINOIS LIBRARY

ANNOUNCEMENT

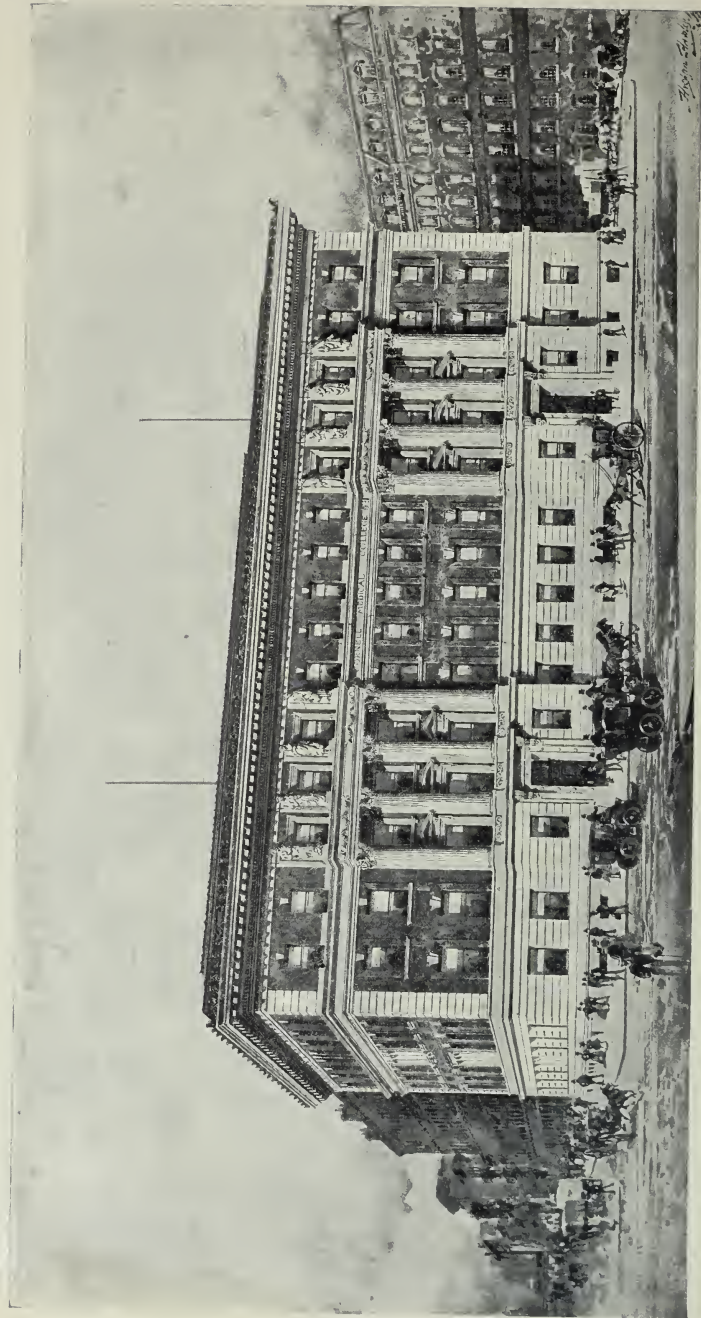
1900-1901

UNIVERSITY OF ILLINOIS

APR 3 4 1917 -

NEW YORK CITY

PUBLISHED BY THE UNIVERSITY



CORNELL UNIVERSITY MEDICAL COLLEGE

CORNELL UNIVERSITY
MEDICAL COLLEGE

IN NEW YORK CITY

ANNOUNCEMENT

1900-1901

NEW YORK CITY
PUBLISHED BY THE UNIVERSITY

CONTENTS.

	PAGE
Trustees of Cornell University	4
Medical College Council	5
Calendar for 1900-1901	6
Faculty of Medicine	7
Standing Committees	16
College Building	17
Loomis Laboratory	20
Clinical Facilities	21
Requirements for Admission	24
Registration and Matriculation	30
Admission of Students from other accredited Medical Colleges	30
Scholarships	32
General Statement of the Plan of Instruction	34
Detailed Statement of the Plan of Instruction	40
Anatomy	40
Physiology	42
Chemistry, Physics and Toxicology	43
Materia Medica and Therapeutics	45
Medicine and Clinical Pathology	47
Surgery	52
Obstetrics	54
Gynæcology	56
Histology	58
Pathology—Post-mortems	59
Bacteriology	60
Special Departments of Medicine and Surgery	61
Diseases of Children	61
Genito-Urinary Diseases	62

	PAGE
Diseases of the Nervous System	64
Mental Diseases	65
Dermatology	65
Laryngology and Rhinology	66
Ophthalmology	66
Otology	67
Orthopædic Surgery	67
Hygiene and Sanitary Science	68
Summary of the Plan of Instruction	73
Courses of Instruction at Ithaca	77
Examinations	79
Requirements for Advancement in Course	79
Requirements for Graduation	82
Requirements for License to Practise Medicine in the State of New York	83
Requirements for Admission to Examination of the Royal College of Physicians of London, and Royal College of Surgeons of England	85
Prizes	85
Hospital Appointments	85
Charges for Instruction	86
Fees for Special Students	86
Summer School	87
Board	89
Text-books	89
Schedules	91
Matriculants	95
Graduates	104

BOARD OF TRUSTEES.

ALONZO B. CORNELL	} <i>Ex-Officio</i>	Ithaca.
The PRESIDENT of the University		Ithaca.
His Excellency, the GOVERNOR of New York,		Albany.
His Honor, the LIEUTENANT-GOVERNOR		Albany.
The SPEAKER of the Assembly		Albany.
The SUPERINTENDENT of Public Instruction,		Albany.
The COMMISSIONER of Agriculture		Albany.
The PRESIDENT of the State Agricultural Soc.,		Brooklyn.
The LIBRARIAN of the Cornell Library		Ithaca.
* ROBERT B. ADAM	(B) ¹	Buffalo.
* WILLIAM BALLARD HOYT, Ph.B.	(A) ²	Buffalo.
* HENRY RUBENS ICKELHEIMER, B.L.	(B)	New York.
* WALTER CRAIG KERR, B.M.E.	(A)	New York.
* HENRY B. LORD	(B)	Ithaca.
* ANDREW D. WHITE, LL.D., L.H.D.	(B)	Ithaca.
ANDREW CARNEGIE	(B)	Pittsburg, Pa.
JOSEPH C. HENDRIX	(B)	Brooklyn.
DEFOREST VAN VLEET, B.S.	(A)	Ithaca.
CHARLES GRAY WAGNER, B.S., M.D.	(A)	Binghamton.
HORACE WHITE, M.A.	(B)	New York.
GEORGE R. WILLIAMS, LL.B.	(B)	Ithaca.
SAMUEL D. HALLIDAY, A.B.	(B)	Ithaca.
HENRY M. SAGE, A.B.	(B)	Albany.
ROBERT H. TREMAN, B.M.E.	(B)	Ithaca.
GEORGE B. TURNER, B.S.	(A)	Auburn.
MYNDERSE VAN CLEEF, B. S.	(B)	Ithaca.
FRANK SHERMAN WASHBURN, B.C.E.	(A)	New York.

* Term of office (5 years) expires in 1900, the next group of six in 1901, etc.
 (1) *B.*, elected by Board; (2) *A.*, elected by Alumni.

ALFRED C. BARNES	(B)	Brooklyn
FRANKLIN C. CORNELL	(B)	Ithaca.
CHARLES S. FRANCIS, B.S.	(A)	Troy
JARED TREMAN NEWMAN, Ph.B., LL.B.	(A)	Ithaca.
WILLIAM H. SAGE, A.B.	(B)	Albany.
ROGER R. WILLIAMS, A.M.	(B)	Ithaca.

C. SIDNEY SHEPARD, A.B., LL.B.	(B)	New Haven.
HIRAM W. SIBLEY, Ph.D., LL.B.	(B)	Rochester.
RUTH PUTNAM, B.LIT.	(A)	New York.
HENRY WOODWARD SACKETT, A.B.	(A)	New York.
STEWART L. WOODFORD, LL.D.	(B)	New York.

EMMONS L. WILLIAMS, *Secretary*.

MEDICAL COLLEGE COUNCIL.

The President of the University ; the Dean of the Medical Faculty ; three Trustees elected by the Board ; and two Professors elected by the Faculty (one each year) form the Council of the Medical College, and, subject to the control of the Board of Trustees of the University, it is charged with the business management of the College and the Dispensary. The present Council is constituted as follows :

JACOB GOULD SCHURMAN, President of the University
and Chairman *ex-officio* of the Council.

WILLIAM M. POLK, Dean of the Medical Faculty.

HORACE WHITE,	} of the Board of Trustees.
A. C. BARNES,	
H. R. ICKELHEIMER,	

L. A. STIMSON,	} of the Faculty.
R. A. WITTHAUS,	

J. THORN WILLSON, *Secretary*.

CALENDAR.

1900-1901.

October 2, Tuesday—College opens.

November 6, Tuesday—Election Day. Legal holiday.

November 29, Thursday, to 9 A.M., December 3, Monday—
Thanksgiving recess.

December 21, 1900, Friday, to 9 A.M., Wednesday, January 2,
1901—Christmas recess.

1901.

February 22, Friday—Washington's Birthday. Legal holiday.

April 5, Good Friday.

May, first and second week—Examinations for undergraduates.

May 20, Monday—Final examinations for graduation begins.

June 5, Wednesday—Commencement.

FACULTY OF MEDICINE.

- JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D.,
President. Ithaca, New York.
- WILLIAM M. POLK, M.D., LL.D.,
Dean and Professor of Gynæcology and Obstetrics, Gynæcologist to Bellevue Hospital and Obstetrician to Emergency Lying-in Hospital.
- LEWIS A. STIMSON, M.D., LL.D.
Professor of Surgery, Consulting Surgeon to Bellevue Hospital and Surgeon to New York and Hudson Street Hospitals.
- RUDOLPH A. WITTHAUS, M.D.,
Professor of Chemistry, Physics and Toxicology.
- W. GILMAN THOMPSON, M.D.,
Professor of Medicine, Physician to the Presbyterian and Bellevue Hospitals.
- GEORGE WOOLSEY, M.D.,
Professor of Anatomy and Clinical Surgery, Surgeon to Bellevue Hospital.
- HENRY P. LOOMIS, M.D.,
Professor of Materia Medica, Therapeutics and Clinical Medicine, Physician to the New York and Bellevue Hospitals.
- J. CLIFTON EDGAR, M.D.,
Professor of Obstetrics and Clinical Midwifery, Physician to the Mothers' and Babies' Hospital and to the Maternity Hospital.
- AUSTIN FLINT, M.D., LL.D.,
Professor of Physiology.
- FREDERIC S. DENNIS, M.D., F.R.C.S., Eng.,
Professor of Clinical Surgery, Surgeon to Bellevue and St. Vincent Hospitals.
- FREDERICK W. GWYER, M.D.,
Professor of Operative and Clinical Surgery, Surgeon to Bellevue Hospital.
- IRVING S. HAYNES, M.D.,
Professor of Practical Anatomy, Surgeon to the Harlem Hospital.
- JAMES EWING, M.D.,
Professor of Pathology.

CLINICAL PROFESSORS.

JOSEPH E. WINTERS, M.D.,

Professor of Diseases of Children, Physician to Willard Parker Hospital.

CHARLES STEDMAN BULL, M.D.,

Professor of Ophthalmology, Surgeon to New York Eye and Ear Infirmary, Consulting Ophthalmic Surgeon to St. Luke's and Presbyterian Hospitals and St. Mary's Hospital for Children.

NEWTON M. SHAFFER, M.D.,

Professor of Orthopædic Surgery, Surgeon-in-Chief of the New York State Hospital for the Care of Crippled and Deformed Children, Consulting Orthopædic Surgeon to St. Luke's and the Presbyterian Hospitals.

GORHAM BACON, M.D.,

Professor of Otology, Aural Surgeon to New York Eye and Ear Infirmary.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System, Physician to Bellevue Hospital, Neurologist to the Montefiore Home.

SAMUEL ALEXANDER, M.D.,

Professor of Diseases of the Genito-Urinary System, Surgeon to Bellevue Hospital.

GEORGE THOMSON ELLIOT, M.D.,

Professor of Dermatology, Assistant Physician and Pathologist to the Skin and Cancer Hospital, Consulting Dermatologist to St. Luke's, Columbus, and New York Lying-In Hospitals.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,

Professor of Mental Diseases, Consulting Physician Manhattan State Hospital for the Insane.

CHARLES H. KNIGHT, M.D.,

Professor of Laryngology, Surgeon to the Manhattan Eye and Ear Hospital, Throat Department.

ALEXANDER LAMBERT, M.D.,

Professor of Clinical Medicine, Instructor in Physical Diagnosis, Physician to Bellevue Hospital.

FRANCIS W. MURRAY, M.D.,

Professor of Clinical Surgery, Surgeon to St. Luke's and New York Hospitals.

CHARLES E. NAMMACK, M.D.,

Professor of Clinical Medicine, Physician to Bellevue Hospital.

FREDERICK KAMMERER, M.D.,

Professor of Clinical Surgery, Surgeon to German and St. Francis's Hospitals.

PERCIVAL R. BOLTON, M.D.,

Professor of Clinical Surgery, Instructor in Surgery, Surgeon to the New York Hospital, Assistant Surgeon to Bellevue Hospital.

WARREN COLEMAN, M.D.,

Professor of Clinical Medicine, Instructor in Materia Medica, Therapeutics, and in Clinical Medicine, Assistant Attending Physician to Bellevue Hospital.

LEWIS A. CONNER, M.D.,

Professor of Clinical Medicine, Instructor in Medicine, Attending Physician to the Hudson Street Hospital, Assistant Pathologist to the New York Hospital.

ALEXANDER B. JOHNSON, M.D.,

Professor of Clinical Surgery, Surgeon to the New York Hospital.

IVIN SICKLES, M.D.,

Assistant Professor of Chemistry and Physics.

LECTURERS.

- ALBERT L. WEBSTER,
Lecturer on Sanitary Engineering.
- CHARLES A. MEADE,
Lecturer on Municipal Sanitation.
- ROBERT C. TAYLOR, A.M.,
Lecturer on Sanitary Laws.
- W. T. JENKINS, M.D.,
Commissioner of Health, Lecturer on International Quarantine.
- W. R. WILLIAMS, M.D.,
Lecturer on Hygiene.

INSTRUCTORS.

- BERTRAM H. BUXTON, M.D.,
Instructor in Bacteriology.
- DEVER S. BYARD, M.D.,
Instructor in Medicine, Attending Physician to City Almshouse.
- CHARLES N. BANCKER CAMAC, M.D.,
Instructor in Clinical Pathology, Physician to City Hospital.
- HERBERT S. CARTER, M.D.,
Assistant Instructor in Gross Pathology.
- JOHN W. COE, M.D.,
Assistant Instructor in Clinical Pathology.
- JEREMIAH S. FERGUSON, M.D.,
Instructor in Histology.
- FRANK S. FIELDER, M.D.,
Assistant Demonstrator of Anatomy.
- GEORGE D. HAMLEN, M.D.,
Instructor in Obstetrics and Gynecology.
- JOHN A. HARTWELL, M.D.,
Instructor in Physiology, Assistant Demonstrator of Anatomy.
- SHERWOOD B. IVES, M.D.,
Instructor in Medicine.

JAMES C. JOHNSTON, M.D.,
Assistant Instructor in Pathology.

H. T. LEE, M.D.,
Assistant Instructor in Pathology.

GUY D. LOMBARD, M.D.,
Assistant Instructor in Histology.

HENRY S. PASCAL, M.D.,
Assistant Instructor in Histology.

LOUIS W. RIGGS, Ph.D.,
Instructor in Chemistry and Physics.

JOHN ROGERS, JR., M.D.,
Instructor in Surgery, Assistant Demonstrator of Anatomy.

EDMUND PENDLETON SHELBY, M.D.,
Instructor in Materia Medica Laboratory and in Therapeutics.

OTTO H. SCHULTZE, M.D.,
Instructor in Gross Pathology.

MAX G. SCHLAPP, M.D.,
Instructor in the Histology and Pathology of the Nervous System.

WILLIAM F. STONE, M.D.,
Instructor in Anatomy and Assistant Demonstrator of Anatomy.

BENJAMIN T. TILTON, M.D.,
Instructor in Surgery, Surgeon to Colored Home.

GEORGE GRAY WARD, JR., M.D.,
Instructor in Obstetrics, Assistant Attending Physician to Mothers' and Babies' Hospital.

CHARLES G. L. WOLF, M.D.,
Instructor in Physiological Chemistry.

CARROLL D. PARTRIDGE,
Assistant in Chemistry.

CLINICAL INSTRUCTORS.

JOHN ASPELL, M.D.,
Clinical Instructor in Gynæcology, Visiting Gynæcologist to St. Vincent's Hospital.

CHARLES C. BARROWS, M.D.,
Clinical Instructor in Gynæcology, Assistant Gynæcologist to Bellevue Hospital.

- COLMAN WARD CUTLER, M.D.,
Clinical Instructor in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary, Attending Ophthalmic Surgeon to St. Luke's Hospital.
- MARTIN J. ECHEVERRIA, M.D.,
Clinical Instructor in Diseases of Genito-Urinary System.
- P. HENRY FITZHUGH, M.D.,
Clinical Instructor in Orthopædic Surgery, Assistant Surgeon New York Orthopædic Dispensary and Hospital.
- JOSEPH FRAENKEL, M.D.,
Clinical Instructor in Diseases of the Nervous System, Attending Physician to City Hospital.
- WILLIAM TRAVIS GIBB, M.D.,
Clinical Instructor in Gynæcology.
- CHARLES L. GIBSON, M.D.,
Clinical Instructor in the Diseases of the Genito-Urinary System.
- WILLIAM HIRSCH, M.D.,
Clinical Instructor in Mental Diseases.
- ARCHIBALD E. ISAACS, M.D.,
Clinical Instructor in Surgery.
- THURSTON G. LUSK, M.D.,
Clinical Instructor in Dermatology, Dermatologist to the Out-Patient Department of Roosevelt and Bellevue Hospitals.
- JAMES E. NEWCOMB, M.D.,
Clinical Instructor in Laryngology.
- ROBERT G. REESE, M.D.,
Clinical Instructor in Ophthalmology, Assistant Surgeon to New York Eye and Ear Infirmary, Ophthalmic Surgeon to the Workhouse and Almshouse Hospitals.
- GUSTAVE SEELIGMANN, M.D.,
Clinical Instructor in Obstetrics.
- WILLIAM SHANNON, M.D.,
Clinical Instructor in Diseases of Children.
- FRANKLIN M. STEPHENS, M.D.,
Clinical Instructor in Otology, Assistant Surgeon to New York Eye and Ear Infirmary.

GEORGE P. SHEARS, M.D.,

Clinical Instructor in Obstetrics, Assisting Attending Physician to Mothers' and Babies' Hospital.

GEORGE K. SWINBURNE, M.D.,

Clinical Instructor in Diseases of the Genito-Urinary System.

HENRY H. WHITEHOUSE, M.D.,

Clinical Instructor in Dermatology, Clinical Assistant to the New York Skin and Cancer Hospital, Dermatologist to Demilt Dispensary.

JOHN MCGAW WOODBURY, M.D., M.R.C.S.,

Instructor in Orthopædic Surgery, Assistant Attending Surgeon Out-Patient Department, Roosevelt Hospital, Attending Surgeon Out-Patient Department, Bellevue Hospital.

CLINICAL ASSISTANTS.

ROBERT STAUNTON ADAMS,

Clinical Assistant in Diseases of Children, Attending Physician to Children's Class, Demilt Dispensary.

HENRY M. ARCHER, M.D.,

Clinical Assistant in Surgery.

H. ARROWSMITH, M.D.,

Clinical Assistant in Laryngology.

RUSSELL BELLAMY, M.D.,

Clinical Assistant in Medicine and Therapeutics.

EARLE CONNER, M.D.,

Clinical Assistant in Otology, Clinical Assistant to New York Eye and Ear Infirmary.

WILLIS S. COOKE, M.D.,

Clinical Assistant in Diseases of Children.

GEORGE SLOAN DIXON, M.D.,

Clinical Assistant in Otology, Assistant Pathologist to New York Eye and Ear Infirmary.

WALTER A. DUNCKEL, M.D.,

Clinical Assistant in Diseases of Children.

SAMUEL M. EVANS, M.D.,

Clinical Assistant in Diseases of the Nervous System.

JOHN FREELAND, M.D.,
Clinical Assistant in Laryngology.

LOUIS NEUMANN, M.D.,
Assistant in Physiology.

HENRY SCOTT, M.D.,
Clinical Assistant in Orthopædic Surgery, Assistant Surgeon to the New York Orthopædic Dispensary and Hospital.

GEORGE DE FOREST SMITH, M.D.,
Clinical Assistant in Mental Diseases.

WILLIAM F. STONE, M.D.,
Clinical Assistant in Surgery.

NEWTON B. WALLER, M.D.,
Clinical Assistant in Diseases of the Genito-Urinary System.

STAFF OF INSTRUCTION AT ITHACA.

GEORGE CHAPMAN CALDWELL, B.S., Ph.D.,
Professor of Chemistry.

BURT GREEN WILDER, B.S., M.D.,
Professor of Physiology and Mineralogy.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D.,
Professor of Physics.

SIMON HENRY GAGE, B.S.,
Professor of Microscopy, Histology and Embryology.

VERANUS ALVA MOORE, B.S., M.D.,
Professor of Pathology and Bacteriology.

WILLIAM RIDGELY ORNDORFF, A.B., Ph.D.,
Assistant Professor of Organic Chemistry.

JOSEPH ELLIS TREVOR, Ph.D.,
Assistant Professor of Chemistry.

PIERRE AUGUSTINE FISH, B.S., D.Sc., D.V.M.
Assistant Professor of Physiology and Materia Medica.

BENJAMIN FREEMAN KINGSBURY, A.B., Ph.D.,
Assistant Professor in Microscopy, Histology and Embryology.

ABRAM TUCKER KERR, M.D., B.S.,
Assistant Professor of Anatomy.

LUZERNE COVILLE, B.S., M.D.,
Lecturer in Surgery.

PAUL RICHARD BROWN, M.D.,
Lecturer in Obstetrics and Medicine.

EMILE MONIN CHAMOT, B.S., Ph.D.,
Instructor in Toxicological Chemistry.

FREDERIC LAWRENCE KORTRIGHT, D.Sc.,
Instructor in Chemistry.

THEODORE WHITTELSEY, Ph.D.,
Instructor in Chemistry.

RAYMOND CLINTON REED, Ph.D.,
Instructor in Pathology and Bacteriology.

CHARLES MELLIN MIX, A.B.,
Instructor in Anatomy.

FLOYD ROBINS WRIGHT, A.B.,
Instructor in Bacteriology.

MARY JANE ROSS, A.B.,
Assistant in Microscopy, Histology and Embryology.

CARL WALLACE FISHER, V.S.,
Assistant in Physiology and Materia Medica.

CHARLES H. BOXMEYER, A.B.,
Assistant in Microscopy, Histology and Embryology.

EDITH JANE CLAYPOLE, Ph.B., M.S.,
Assistant in Physiology.

JOHN EDGAR TEEPLE, B.S.,
Assistant in Physiological Chemistry.

SAMUEL HOWARD BURNETT, A.B., M.S.,
Assistant in Pathology.

WALTER WELLS HOOVER,
Assistant Demonstrator in Physiology and Materia Medica.

MORRIS ROGERS EBERSOLE, B.S.,
Assistant in Chemistry.

ROBERT FISCHER, B.S.,
Assistant in Chemistry.

IRA HARRIS DERBY, B.S.,
Assistant in Chemistry.

JAMES HARVEY PETTIT,
Assistant in Chemistry.

B. B. TWINER, Ph.D.

STANDING COMMITTEES.

FACULTY OF MEDICINE, NEW YORK CITY.

ADVISORY COMMITTEE.

DR. WILLIAM M. POLK, *Dean.*

DR. LEWIS A. STIMSON.

DR. W. GILMAN THOMPSON.

CATALOGUE COMMITTEE.

DR. HENRY P. LOOMIS, *Chairman.*

DR. IRVING S. HAYNES.

SCHEDULE COMMITTEE.

DR. RUDOLPH A. WITTHAUS, *Chairman.*

DR. FREDERICK W. GWYER.

JOHN ROGERS, JR., M.D.,
Secretary of the Faculty.

J. THORN WILLSON,
Clerk of the College.

First Avenue, 27th and 28th Streets.

COLLEGE BUILDING.*

THE Medical Department of Cornell University was established in 1898. This undertaking, which had been contemplated by the Trustees for several years, was made possible by the gift to the University of a large and fully equipped building specially planned for medical instruction, and by the bestowal of a sufficient endowment for the maintenance of a Medical School.

In order that the profession may have some idea of the facilities for teaching which the School offers, an outline of this building, including its interior arrangements, is presented here.

It is designed in a severe style of Renaissance architecture, and is constructed of Indiana limestone and red brick. FIVE stories high it fronts on First Avenue, and faces Bellevue Hospital. It covers all the space bounded by First Avenue between 27th and 28th Streets, extending back 100 feet, and affords a floor area of about 200 by 100 feet (light and air space excepted) for each story.

The building comprises a Medical School and a Dispensary, each with a main entrance on First Avenue and is arranged as follows:

The basement is commodious, well lighted and ventilated and contains the engines, boilers, dynamos and ventilating machinery; the refrigerating and cold-storage plant, with the injecting and freezing rooms; a large room with lockers and another for bicycles. Storerooms, including one for drugs, four rooms, including a small theatre and a workshop, for Orthopædic surgery, toilet rooms and lavatories and several rooms for the janitor of the building are also found here. On the basement level, but outside of the building, is a large incinerating furnace for consuming all the refuse from the College.

* See frontispiece and floor plans.

The principal entrances to the building are on the *First Floor*. They open from First Avenue into vestibules, one leading to the main hall of the School, the other to the general waiting-room of the Dispensary, between which the large Amphitheatre is situated.

The rooms of the Children's department, which include an isolating room and a small theatre, are placed between the entrances, while around the waiting-room of the Dispensary are located the office for distributing patients, the Pharmacy, rooms for the departments of Surgery and Medicine, waiting- and dressing-rooms, lavatories and rooms for the Roentgen-ray and sterilizing apparatus.

Grouped around the main hall of the School on this floor are the Council and Faculty room, the offices of the Dean, the Secretary and the Clerk, a reading and recitation rooms.

Upon the *Second Floor*, the same general arrangement prevails. On the side of the Dispensary there is a large waiting-room, surrounded by rooms assigned respectively to the departments of Genito-Urinary diseases, diseases of the Nervous System, of the Skin and of the Ear, while covering the space at the middle front of the building are the rooms belonging to the departments of the Eye and the Throat, with a series of twenty dark stalls for the simultaneous examination of as many patients by as many students. Small waiting- and dressing-rooms and lavatories for the convenience of the patients are also found on this floor. The upper part of the large Amphitheatre, extending from the floor below, occupies the centre of the rear half of this floor. The remainder of the floor is given up to the School. Here is found a hall, around which are grouped recitation rooms and laboratories for Clinical Pathology. These laboratories have convenient access from the Dispensary, permitting ready coöperation in the work carried on there.

The *Third Floor* of the building is given up to teaching space, excepting an area upon the "Dispensary side" of the building, which is assigned to the departments of Gynæcology and Obstetrics. This comprises a small theatre, examining, waiting, dressing and toilet room, manikin, and two recitation rooms.

The remainder of this floor is occupied by two amphitheatres (each having a seating capacity of about 175 students), one for Anatomy, Physiology and Pathology, the other for Chemistry; attached to each are Preparation and Research rooms. The Chemical Laboratories also occupy this floor, including the main Laboratory, the Laboratory for Physiological Chemistry, rooms for apparatus, etc. and a Library of Chemistry.

There is the usual hall and corridor space with toilet rooms and lavatories.

The *Fourth Floor* is occupied by the upper part of the two Amphitheatres which project from the floor below. The Department of Pathology and Bacteriology occupies the remainder of this floor. Ample facilities are provided, not only for the class work and demonstrations, but for special and advanced courses and investigations. A Library of Pathology and Bacteriology is situated here.

The *Fifth Floor* is devoted to the Department of Practical Anatomy. The main Dissecting room occupies a space of 160 x 55 ft.; there is also a large room, 40 x 50 ft., which is set apart for advanced undergraduates and post-graduates. These rooms can be cooled by the refrigerating plant in such a manner as to permit the pursuit of Practical Anatomy with as much comfort in summer as in winter.

This floor presents such facilities as lockers for 300 students, a small Demonstration Theatre, with prosecting and cold-storage room attached, private Dissecting rooms, a Bone-room, a Library, a Reading and Study room and a commodious room for instruction in Operative Surgery.

The Department of Photography, the Animal House and a room for the preparation of bones are placed in a half-story at the top and rear of the building.

There are two main staircases, one for each department of the building, passenger elevators and a freight lift.

The building itself is fire-proof throughout, being constructed of steel, stone, brick, marble and tile. The glazed brick and glazed tile walls, tile floors and enamel-painted, cast-iron trim

to the doors and interior of the windows ensure cleanliness. Special attention has also been paid to the problems of refrigeration, lighting, heating and ventilation, so that every part of the structure can be easily kept at all times in an agreeable and sanitary condition.

In conjunction with this building the Loomis Laboratory will be employed in the manner set forth below.

LOOMIS LABORATORY. (FOUNDED 1886.)

IT is intended that this laboratory shall not only serve the purposes of undergraduate instruction in connection with the laboratories in the College building in such subjects as can be best taught in a laboratory, but also that it shall be especially available to graduates in medicine who may desire to pursue further study or original research in the various departments of laboratory investigation.

The building is five stories in height, fire-proof, with concrete floors, thoroughly ventilated, and provided with an elevator, steam heat, gas and an electric-light plant. It is lighted by windows on either side.

Laboratories of *Materia Medica* and *Therapeutics* occupy the first and second floors. The collection of drugs is complete, and includes mounted specimens of most of the botanical plants used as medicines. There is a large collection of apparatus for the practical and experimental study of *Pharmacology*.

The second floor is divided into a general laboratory and a laboratory of special research. The general laboratory has tables for fifty students, each furnished with running water, gas, electric lights and a special ventilating plant.

The laboratory for advanced work in *Physiology* occupies the third floor and is well equipped with apparatus for original research; the collection of models for the demonstration of physiological processes is as complete as any in the country. Connected with the laboratory is a large room for section demonstrations.



THE LOOMIS LABORATORY

The Pathological Department occupies the entire fourth floor and on this floor is the pathological museum, private rooms for the instructors and advanced workers, thoroughly equipped photographic rooms, workshop and a freezing plant for the preservation of pathological specimens. There is ample supply of material for study in all departments of pathology and bacteriology.

The fifth floor contains the Bacteriological Laboratories in front and in the rear a large room used by the classes in histology and pathology.

The position of this general class room above the surrounding buildings, its equipment with suitable tables, necessary reagents, microscopes, and accessories for class work, provides the best accommodation possible for laboratory instruction. It is abundantly lighted upon three sides, is well ventilated, is fitted with separate lockers for each student, and has a seating capacity for one hundred students.

CLINICAL FACILITIES.

THE Medical Department of Cornell University has been established in New York in order to secure those advantages for clinical instruction which are to be found only in large cities. The Faculty of the Medical College hold appointments in the hospitals and dispensaries in the city and are enabled to utilize for teaching purposes the large quantity and variety of clinical material of ten of the great City Hospitals, viz.:

Bellevue Hospital—26th Street and East River.

This hospital has 900 beds, and receives 10,000 patients annually. In this building is an amphitheatre capable of seating 300 students, and also a number of small, newly built operating theatres, where section demonstrations in surgery and gynæcology are made before the class. Connected with the hospital is a hydropathic establishment where students are shown the practical applications of bath, douches, massage, etc.

The following clinics are held during the Session:

Obstetrics and Gynæcology—Monday, 2 P.M.

Professor POLK.

Medicine—Tuesday and Friday, 3 P.M.

Professors LOOMIS and THOMPSON.

Surgery—Wednesday and Thursday, 3 P.M.

Professors STIMSON, WOOLSEY, DENNIS and GWYER

Genito-Urinary—Wednesday, 3 P.M., for half the term.

Professor ALEXANDER.

Nervous Diseases—Friday, 4 P.M.

Professor DANA.

The Out-Patient Department of Bellevue Hospital treats over 50,000 patients annually. A large proportion of this clinical material is utilized for the purpose of section teaching by members of the Faculty who hold positions in the Dispensary.

City Hospital (formerly Charity Hospital)—Blackwell's Island, East River. To reach this institution the steamer should be taken at the foot of East 26th Street.

This hospital has a capacity of 1000 beds. It offers special advantages for the study of venereal and genito-urinary diseases.

New York Hospital—15th Street, between Fifth and Sixth Avenues.

This is one of the most thoroughly equipped hospitals in the city and has connected with it a large Out-Patient Department.

Clinical instruction is given by Professors Stimson, Loomis, Murray, Bolton and Johnson.

Presbyterian Hospital—Madison Avenue and 70th Street.

This is a large general hospital of 350 beds and includes extensive and varied medical and surgical service. Clinical instruction is given by Professor Thompson.

Mothers' and Babies' Hospital—Lexington Avenue and 52d Street.

This modern hospital has 73 beds devoted to maternity cases, and, in addition, a rapidly growing out-patient obstetric service in the tenement-house district. Students of the third and fourth year of the Cornell University Medical College are admitted as internes in this hospital for a period of two weeks or more.

During this time the students are boarded and lodged in the hospital building and receive practical bedside instruction under the supervision of Professor Edgar and the hospital staff.

Willard Parker Hospital — Foot of East 16th Street.

This hospital is in charge of the Board of Health, New York City, and offers unrivalled opportunities for the study of Contagious diseases — such as diphtheria, scarlet fever, measles, smallpox and typhus fever.

Professor Winters gives bedside instruction to small sections of the fourth-year class in this hospital.

New York Skin and Cancer Hospital — 19th Street and Second Avenue.

This hospital affords accommodation for the treatment of a large number of patients afflicted with cancer and skin diseases. Section instruction in dermatology is conducted here by Professor Elliot and his assistants.

St. Francis's Hospital — 609 Fifth Street.

A general hospital with a capacity of 230 beds. Section instruction here is under the charge of Professor Kammerer.

St. Vincent's Hospital — 195 West 11th Street.

This is a general hospital containing nearly 200 beds.

Section teaching and clinics are given here by Professor Dennis and Dr. Aspell.

New York Eye and Ear Infirmary — Second Avenue, corner 13th Street.

This hospital is devoted to the treatment of eye, ear and throat diseases.

Clinical instruction is given in this institution by Professors Bull and Bacon, aided by a corps of assistants.

Manhattan Eye and Ear Hospital — 103 Park Avenue.

This is one of the largest institutions for the treatment of this class of diseases in the city. Professor Knight and his assistants give instruction in laryngology on Saturdays.

In addition to these hospitals, the teaching corps of the Medical Faculty is represented upon the visiting staffs of many other

hospitals and dispensaries in the city, where the Cornell students are invited to attend clinics. Among these are:

THE MATERNITY HOSPITAL,
 GOUVERNEUR HOSPITAL,
 HARLEM HOSPITAL,
 ALMSHOUSE AND WORKHOUSE HOSPITAL,
 EMERGENCY HOSPITAL,
 RANDALL'S ISLAND HOSPITAL,
 FORDHAM HOSPITAL,
 COLUMBUS HOSPITAL,
 MANHATTAN STATE HOSPITAL.

REQUIREMENTS FOR ADMISSION.

The Medical Department of Cornell University is open to all who have a "medical-student certificate." The laws of New York State require of the prospective student of medicine a preliminary education equivalent to that obtainable in a four-years course in any of the public high schools recognized by the Regents as maintaining a satisfactory standard. Those who cannot present formal evidence of at least this amount of preliminary education must pass the examinations conducted by the State authorities at regular intervals throughout the year. The medical-student certificate thus earned by examination or by a high school, college, or university diploma must be filed with the secretary at the time of registration. As the certificate can be obtained with very little or no knowledge of subjects which bear directly upon the study of medicine it is earnestly recommended that, before beginning the professional course, as thorough an understanding as possible be acquired of English, Latin, algebra, geometry, physics, inorganic chemistry and physiology. This is obtainable to a certain extent in many high schools and is encouraged by the Regents, who grant a medical students' diploma for a sufficient amount of work so distributed as to be preparatory for subsequent advanced technical studies. As an academic college

course offers far greater advantages in this respect, all who can are urged to take the Freshman and Sophomore years in the Academic Department of the University proper at Ithaca. After the completion of these years the student may elect the work of the first two years of the medical department, which may be pursued at Ithaca, and at their expiration finish the remaining two years of the medical course in New York and thus obtain both the B.A. and M.D. degrees in six years. This is possible because the first two years of the medical course in New York is offered in duplicate at the University in Ithaca. Women must take these years in the medical department in Ithaca, where special accommodations are provided for them in the Sage College. Women are received at the medical department in New York City in the third and fourth years only.

REGENTS' ENTRANCE EXAMINATIONS AND CERTIFICATES.

The following requirements for admission to candidacy for a degree in *any medical college in New York State* were established by laws passed by the Legislature, to take effect March 21, 1896.

MEDICAL-STUDENT CERTIFICATE.

Each student who matriculates with the intention of becoming a candidate for the degree of doctor in medicine, whether he comes to New York to begin or continue the study of medicine, must file with the Dean of the College a medical-student certificate issued by the Regents of the University of the State of New York.

This certificate is granted according to the following extract of the Laws of 1896, ch. iii.:

To provide for the preliminary education of medical students:

The degree of bachelor or doctor of medicine shall not be conferred in this State before the candidate has filed with the institution conferring it the certificate of the Regents that before beginning the first annual medical course

counted toward the degree (unless matriculated conditionally as hereinafter specified), he had either graduated from a registered college or satisfactorily completed a full course in a registered academy or high school ; or had a preliminary education considered and accepted by the Regents as fully equivalent ; or held a Regents' medical-student certificate, granted before this act took effect ; or had passed Regents' examinations as hereinafter provided. A medical school may matriculate conditionally a student deficient in not more than one year's academic work or twelve counts of the preliminary education requirements, provided the name and deficiency of each student so matriculated be filed at the Regents' office within three months after matriculation, and that the deficiency be made up before the student begins the second annual medical course counted toward the degree. Students who had matriculated in a New York medical school before June 5, 1890, and students who had matriculated in a New York medical school before May 13, 1895, as having entered before June 5, 1890, on the prescribed three years' study of medicine, shall be exempt from this preliminary-education requirement.

A medical-student certificate may be earned without notice to the Regents of the conditional matriculation either before the student begins the second annual medical course counted toward the degree or two years before the date of the degree for matriculants in any registered medical school, in the four cases following :

1. For matriculants prior to May 9, 1893, for any twenty counts, allowing ten for the preliminaries, not including reading and writing.
2. For matriculants prior to May 13, 1895, for arithmetic, elementary English, geography, spelling, United States history, English composition and physics, or any fifty counts, allowing fourteen for the preliminaries.
3. For matriculants prior to January 1, 1896, for any twelve academic counts.
4. For matriculants prior to January 1, 1897, for any twenty-four academic counts.

But all matriculants, after January 1, 1897, must secure forty-eight academic counts, or their full equivalent, before beginning the first annual medical course counted toward the degree, unless admitted conditionally, as hereinbefore specified, when the deficiency must be made up before the student begins the second annual medical course counted toward the degree.

This act shall take effect March 21, 1896, except that the increase in the required course of medical study from three to four years shall take effect January 1, 1898, and shall not apply to students who matriculated before that date and who receive the degree of doctor of medicine before January 1, 1902.

NOTES ON THE LAW.

1. For matriculants prior to January 1, 1897, medical schools are not required to furnish notice of conditional matriculation, and such students may make up

the full requirement at any time before beginning the second annual course counted toward the degree, or two years before the date of the degree.

All matriculants after January 1, 1897, must secure forty-eight academic counts or their full equivalent before beginning the first annual course counted toward the degree, unless admitted conditionally, in which case the deficiency is not to exceed twelve academic counts and must be made up before the student begins the second annual course counted toward the degree.

2. The Regents will accept as fully equivalent to the required academic course any one of the following :

(a) A certificate of having successfully completed at least one full year's course of study in the collegiate department of any college or university registered by the Regents as maintaining a satisfactory standard.

Certificates should be issued in due form by the president, dean or principal of the institution ; and should be signed under seal or acknowledged before a notary, unless the institution is in the University of the State of New York or the signature of the officer issuing is well known in the Regent's office.

(b) A certificate of having passed in a registered institution examinations equivalent to the full collegiate course of the freshman year or to a completed academic course.

Three full academic years of satisfactory work may be accepted as a high-school course till August 1, 1896, when four full academic years will be required.

(c) Regents' pass-cards for any forty-eight academic counts or any Regents' diploma.

(d) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(e) A certificate of successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(f) The bachelor's degree in arts or science, or substantial equivalents from any registered institution in France or Spain.

(g) Any credential from a registered institution or from the government in any foreign state or country which represents the completion of a course of study equivalent to graduation from a registered New York high school or academy, or from a registered Prussian gymnasium.

3. March 22, 1898, the Regents approved the following modifications in requirements for medical student certificates :

(a) **Partial Equivalents.** Evidence of completion in a registered school of one or more years of satisfactory high-school work, and Regents' examinations in subjects representing the balance of the required four-year course (any 12, 24, or 36 additional counts).

(b) **Cumulative Credit.** Regent's examinations in the second or third year of any language course will be accepted as including the preceding years in those courses.

(c) **Date of Certificate.** Candidates unable to offer certificates of the required academic work in a registered institution may present evidence to the Regents that they had the required preliminary education before beginning the second course counted toward the degree, and may on passing Regents' examinations receive their certificates as of the date when the preliminary work was completed.

4. Other equivalent credentials from other States and countries besides those specified in the law, which may be accepted by the Regents in place of an examination, may be ascertained by written application to Examination Department, University of the State of New York, Albany, N. Y.

5. Any student who has matriculated under the legal requirements in regard to Regents' examinations, existing at the time of matriculation, will not require another certificate whenever he may be graduated.

6. If students unable to offer equivalents come from out of the State, they may enter the second course counted toward the degree, provided that at the preceding June or September examination they meet the preliminary requirement.

Medical-student certificates issued on "equivalents" without examination, may be obtained at any time before the degree of M.D. is conferred, provided that the course of study for which the certificate is issued was completed within the prescribed time.

EXAMINATIONS UNDER THE ACT.

Students who do not obtain a medical-student certificate without examination must pass an examination on the subjects required by the Regents. These examinations are held entirely under the charge of the Regents in New York, and in many other places throughout the State, on the following dates :

CALENDAR OF REGENTS' EXAMINATIONS.

YEAR.	JAN.	MARCH.	JUNE.	SEPT.
1900.....	22-26	28-30	11-15	25-27

NOTE.—September examinations will be held in New York, Albany, Syracuse and Buffalo, for law and medical students only. The other examinations are held in New York and in numerous academies and high schools throughout the State for professional and academic students.

EXTRACTS FROM REGENTS' RULES.

Order of Studies.—There is no restriction in the order in which studies may be taken. Advanced students who may come from other States, or who,

for other reasons, have not passed in elementary subjects, may take them at any time: *e. g.*, arithmetic after algebra or geometry; English composition after rhetoric, etc.

Time Limit.—There is no limit of time, but all credentials issued by the University are good till cancelled for cause. Studies necessary to obtain any credential may be passed at different examinations.

Seventy-five per cent, of correct answers is required in all subjects.

Answer papers will be reviewed in the Regents' office, and all papers below standard will be returned to the candidates. For those accepted, pass-cards will be issued.

Pass-Cards.—A Regents' pass-card is not limited in time; therefore it is not necessary to pass any Regents' examination a second time.

Medical-Student Certificate.—When all requirements are fulfilled, the Regents grant a medical-student certificate.

On receiving this certificate, the candidate must send it to the secretary or recording officer of the university or college at which he intends to study medicine.

N. B.—*Candidates for medical students' examination should send notice at least ten days in advance, stating at what time and in what studies they wish to be examined, that required desk-room may be provided at the most convenient place.*

Candidates who fail to send this advance notice will be admitted only so far as there are unoccupied seats.

MEDICAL-STUDENT CERTIFICATES WITHOUT EXAMINATIONS.

Students who may be entitled to the medical-student certificates on equivalents (see notes on the law, 2, 3, 4, 5 and 6) are advised to present or forward their credentials to the Secretary of the College, who will send them to the Regents for examination and approval. They will be returned as soon as verified, and, if accepted, the proper certificate will be sent with them. The Secretary of the College will furnish, on application, blank forms of collegiate, academic, or high-school certificates.

Other equivalent credentials from foreign countries or from other States may be accepted by the Regents at their discretion.

The Secretary will furnish full information on request.

DIRECTIONS FOR OBTAINING A REGENTS' MEDICAL-STUDENT CERTIFICATE.

1. Give the full name of the applicant, the exact name of the institution and of the department attended, an accurate description of the course pursued using the same terms that are given in the official announcement, circular or catalogue of the institution.

Send an official announcement, circular or catalogue of the institution, showing :

(a) Requirements for admission, *i.e.*, subjects and years given to their completion.

(b) Requirements for graduation in each course, including subjects pursued and time devoted to each.

JAMES RUSSELL PARSONS, JR.,
Director of College Dept.

Regents' Office, Albany, N. Y.
15 April, 1898.

REGISTRATION AND MATRICULATION.

Students on entering the College will be required to register and pay the registration fee of \$5. The payment of this fee is required only once. They will receive a receipt which will be exchanged for a certificate of full or conditional matriculation when they shall have complied with the Regents' requirements for such matriculation ; but students who have already been matriculated at a medical college in the State of New York, according to the Regents' requirements, and those who already hold a medical-student certificate, will be matriculated immediately on registration.

THE ADMISSION OF STUDENTS FROM OTHER ACCREDITED MEDICAL COLLEGES.

ADMISSION TO ADVANCED STANDING.

Graduates of Cornell, Yale, Harvard, Princeton, University of Pennsylvania, Johns Hopkins, Columbia, University of Michigan and other accredited universities, who have taken either a preparatory medical course or special work in organic or inorganic chemistry, physics or physiology, will be allowed credit for the work which they have done, and may be excused from the recitations upon these subjects, and from the exercises of the chemical laboratory in the first year, provided they pass examinations before the professors of these departments, and provided they give to dissection and electives as described on pages 35-37, in

the various departments, a full equivalent in hours to the subject they may have passed by examination.

Students who have had training in microscopical technique or in histology will be given advanced work in the histological laboratory.

Students who have already attended the requisite number of courses in other accredited medical colleges may be admitted to advanced standing in any one of the years of the four years' course of the Cornell University Medical College by presenting a Regents' medical students' certificate and by passing examinations in the subjects described on pages 79-82 as completed, in the year or years previous to that which the student desires to enter. The applicant must also present certificates of having satisfactorily completed laboratory courses equivalent to those required of the Cornell medical students in the year or years previous to that to be entered.

According to the law of the Regents of the State of New York, no student from an unregistered Medical School may obtain a degree on less than two years of medical study in this State.

HOLDERS OF SPECIAL DEGREES.

Graduates of pharmacy or of dental or veterinary or other professional schools, who can present satisfactory evidence of having completed any course of study required in any year by this College, may upon passing a satisfactory examination be excused from attendance upon instruction in that subject, provided they take equivalent additional work in other branches.

ADMISSION TO SPECIAL DEGREES.

Graduates in medicine, or students who desire to pursue a special course without graduation, are admitted to registration as special students without Regents' or other preliminary examination. Such special courses do not count in any way as part of the four years' course required of candidates for the degree of doctor in medicine. Further information regarding such courses,

fees, etc., may be obtained by addressing the Secretary of the Cornell University Medical College, First Avenue, 27th to 28th Streets, New York.

NEW YORK STATE SCHOLARSHIPS.

Under the law of the State the Superintendent of Public Instruction is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly Districts in the State. These scholarships entitle the holder to free tuition for four years in any department of Cornell University. They are awarded on examination to candidates from the general Assembly Districts "in consideration of their superior ability and as a reward for superior scholarship in the academies and public schools of this State."

For particulars in regard to these scholarships, application should be made to the Superintendent of Public Instruction at Albany.

Holders of State scholarships are notified that failure to register before the close of registration day involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The President of the University is required by law to send immediate notice of such vacancies to the Superintendent of Public Instruction and the Superintendent fills vacancies forthwith.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS.

Pursuant to the action of the Trustees, at a special examination held at Ithaca, September 25th to 29th, 1900, at the beginning of the freshman year, eighteen scholarships of the annual value of \$200 each will be annually thrown open to competition for all members of the freshman class who are registered in courses leading to first degree.

Students of high ability from the State of New York will have the additional advantage of being able to secure State scholarships, as there is nothing in the University statutes to prevent a

student from holding both a State scholarship and a University scholarship.

These scholarships will be given to those who on examination shall average the highest in any three of the following groups, always including group (a). Previous to entering this competitive examination, however, candidates are required to pass satisfactorily the regular entrance examination in English at the University. *School certificates, Regents' diplomas and normal school diplomas* are not accepted in place of this English examination.

(a) Arithmetic, and algebra through quadratic equations.

(b) Plane and solid geometry, advanced algebra, plain and spherical trigonometry.

(c) Greek.

(d) Latin.

(e) French.

(f) German.

For further information in regard to the scholarships see the Register of Cornell University.

GENERAL STATEMENT OF THE PLAN OF INSTRUCTION.

THE chief features in the scheme of instruction are extended laboratory training in all the subsidiary branches, daily recitations from standard text-books, clinical teaching in dispensaries and at the bedside in hospitals, and enough didactic lectures to make clear the general principles and conflicting theories in the practice of medicine and surgery. All students in any one class advance simultaneously in the various subjects and no section or group works apart from any other, thereby losing the opportunity to appreciate the relationship of the different matters which at any given time may be under discussion. Allowance, however, has been made for those who through natural endowments or superior energy or previous education can outstrip their less fortunate fellows. A careful record is kept of the attendance and character of the work of every student, and by this means at the end of the year each is placed in the section to which this record entitles him. A system of electives in clinical, laboratory, and recitation work is also provided, which it is the aim of the Faculty to enlarge as opportunities arise. A student is required to master all the subjects taught in any given year before being allowed to advance to the next, as the knowledge acquired in each year is necessary for a proper understanding of that which follows. Examinations are held at the end of each session; a failure to pass not more than two subjects, one of which at least must be a laboratory subject, is allowed in the spring, but every subject must be satisfactorily passed at the beginning of the next ensuing college year, or the applicant will be compelled to repeat the work of the preceding year. The following is a statement of the curriculum in each of the four annual sessions necessary to

obtain the degree of M.D., and attention is called to the careful arrangement of the instruction in time and correlation in subject matter so as to provide for a proper understanding and assimilation of the knowledge imparted in the different departments.

The essential feature of the entire system is the division of the classes of the several years into small sections for recitations, demonstrations, laboratory exercises, dispensary visitation and ward work in the hospitals.

The first year is devoted to anatomy, several consecutive uninterrupted hours being provided for dissection—embryology, normal histology, chemistry, and physics. The gross anatomy of the thoracic, abdominal, and pelvic viscera is demonstrated in outline in the early weeks of the session in anticipation of the examination of these organs in the histological laboratory. At the same time the department of Physiology presents for consideration the cell, the blood, the circulation, respiration, digestion, absorption, secretion and excretion in the order named. Thus the study of gross and histological anatomy and physiology advance together and in correlation with each other.

The general principles of mechanics, hydrostatics, optics, electricity, heat and acoustics, and their application to medicine, are taught in lectures illustrated by experiments. Inorganic chemistry is studied in the laboratory throughout the year. The class is divided into small sections, each of which must attend daily one or more recitation exercises in anatomy, histology, physiology and chemistry. These follow as closely as possible the practical work.

Students who have had the advantage of a thorough preliminary education in Physics and Chemistry before entering the medical school, after satisfactorily demonstrating to the professor in charge of this department by examination or otherwise, that they are familiar with the work of the first year, may be excused from attendance upon physics and chemistry. In place of these subjects they must elect at least one of the following courses given

in the second year—namely, laboratory pharmacology, or physiological chemistry, or bacteriology.

During the second year anatomy, physiology and chemistry are completed, except as they are reviewed in recitations during the fourth year preparatory for the State examinations, and the study in text-books of medicine, surgery, obstetrics and pathology is begun. The gross anatomy of the organs of special sense, and then that of the nervous system, are taught at the outset of the year by demonstrations to small groups of students. The demonstration of these organs is followed as closely as possible by the study of them in the histological laboratory during the first half of the session. The lectures and recitations in physiology follow the same course and being antedated by the study of the gross and histological aspects of the parts under discussion are capable of easy comprehension. Organic and physiological chemistry is studied in the laboratory and by lectures and recitations throughout the year. At the same time a laboratory course in pharmacology is pursued, familiarizing the student with the physical and chemical properties of drugs. Bacteriology is begun, the student commencing with the preparation and care of media and the recognition of the gross and microscopical characteristics of micro-organisms.

During the first few weeks of the term lectures are delivered upon the general principles of pathology, with particular reference to the elucidation and classification of the various forms of inflammation. The substance of these lectures will form the basis of the subsequent instruction in this subject in all departments, and thus insure uniformity in the teaching and understanding of the causes of disease. These lectures are supplemented by autopsies before small sections to demonstrate gross lesions. Several weeks are given to practical instruction in normal physical signs as applied to the chest. Having obtained some knowledge of pathology the student by means of recitations is made familiar with the principles of surgery, medicine and obstetrics.

Students who have completed elsewhere courses in physiological chemistry or pharmacology equivalent to those of the second

year, may by passing examinations at the beginning of the term be excused from further attendance upon them.

Students thus excused from part of the second-year work and those who have been allowed electives in their first year may take one or more of the following elective courses during their second year — namely: 1. Bacteriology in its practical relation to disease. 2. Materia medica recitations of the third year. 3. Manikin course in obstetrics. 4. Obstetrical clinic. The two latter elective courses are in preparation for the required work in practical obstetrics, which usually taken in the third, can thus be taken during the second summer if desired.

In the third year medicine, surgery, materia medica, therapeutics and obstetrics are studied systematically from text-books and practically at the bedside, in the dispensary and in general clinics. Enough didactic lectures are given by the Professors of Medicine and Surgery at the beginning of the session to explain general principles in symptomatology and diagnosis. Throughout the year the class must attend in small sections one or more daily recitations from standard text-books upon subjects previously assigned and learned. Pathology is studied in greater detail than previously, both in the laboratory and the dead house, and as far as possible morbid processes are demonstrated in advance of the study of the disease in the text-book or its clinical presentation.

In conjunction with the bedside teaching instruction is given in all of the modern laboratory aids in diagnosis classified under the term of clinical pathology.

Groups of ten or twelve students are taught by individual experience the methods of examining patients for the detection of abnormal physical signs, and at the close of the session all students are expected to be familiar with the recognition and treatment of the common diseases and be conversant with the fundamental subjects of a medical education. The specialties taken up in this year are neurology, pediatrics, toxicology, genito-urinary diseases and gynæcology. They are taught by clinical lectures as part of the general subjects of the practice of medicine, surgery and obstetrics.

To meet the requirements of hospital and other boards of examination, such as those of the civil service or the army and navy, students who wish to compete in these examinations may elect in their third and fourth years to have all their recitation exercises with special instructors appointed by the faculty. A separate fee is required for this service.

The fourth year is devoted chiefly to the study of diagnosis and treatment of disease at the bedside, in the dispensary and in clinics. The extent of this may be inferred from the present arrangement of the schedule, which contemplates about fifty hours of hospital-ward work in medicine and nearly the same number in surgery for every student. There are as few lectures as are consistent with the proper exposition of the chief problems confronting the profession, and these are delivered at the outset of the term in order that the student may become familiar as soon as possible with the facts which are to be taught practically. For example, to the professor of medicine twelve didactic lectures are assigned. This proportion has to be exceeded somewhat in therapeutics, obstetrics and the specialties, but many of these lectures are illustrated by the presentation of typical cases and are really clinics. The clinical instruction in surgery is supplemented by an operative course in which the student performs upon the cadaver all the common operations. Particular attention is also given to the methods of making medical and surgical diagnosis, and in this connection constant use is made of the bacteriological and chemical laboratories where the student examines specimens taken at the bedside during one exercise, and reports the results to the class at the next.

Hygiene and its application in the province of the physician and public health officer is taught by lectures supplemented by demonstrations of the plans and methods of the city health board.

The major part of the theoretical instruction, as in the previous years, is given by recitations in which the subjects of medicine (including neurology), surgery (including orthopædic surgery and genito-urinary diseases), therapeutics, obstetrics and gynæcology,

are concluded, and pathology, anatomy, chemistry, and physiology and materia medica are reviewed.

The instruction in the specialties, which is made the distinguishing feature of this final year, is begun with a few clinical lectures and is continued by a course in the examination and treatment of dispensary patients by each student. Every one receives from fourteen to twenty-one hours of this training (the number varies somewhat with the subject), and should become reasonably proficient in the use of instruments, the ability to make diagnoses and give relief. There is no attempt made to produce experts, but each one before graduation must know enough about the specialized branches of medicine to be competent general practitioners. The lectures upon the physiology of the organs of special sense delivered in the fall to the second-year class, must also be attended by the seniors. These lectures serve as an introductory review of facts necessary for a proper knowledge of the specialties and obviate unnecessary repetitions by the different professors.

Every student must personally attend a definite number of cases of labor, and for this purpose the maternity service connected with the college offers excellent opportunities. The faculty earnestly recommend that this work be accomplished in the summer preferably of the third year; by the proper choice of electives it is possible in the second summer, but this is not as desirable or profitable. If taken during the regular winter session much loss in other work would result. Those who for any proper reason cannot take this course as advised in the summer might, however, succeed in obtaining the necessary cases during the winter by selecting odd hours when not engaged in section work, and by arrangement with the office to receive telephone calls.

As in the previous year there are the same electives in recitations for those who wish particularly to fit themselves for hospital and other competitive examinations. There is also offered an advanced course in neurology in a hospital devoted largely to the care of this class of patients. There will in addition be elective practical courses in the dispensary, but until sufficient material becomes available these cannot be definitely announced.

DETAILS OF THE PLAN OF INSTRUCTION.

ANATOMY.

GEORGE WOOLSEY, M.D., *Professor of Anatomy.*

IRVING S. HAYNES, M.D., *Professor of Practical Anatomy.*

DR. WILLIAM F. STONE, *Instructor.*

Assistant Demonstrators of Anatomy.

DR. WM. F. STONE,

DR. JOHN A. HARTWELL,

DR. JOHN ROGERS, JR.,

DR. FRANK S. FIELDER.

Anatomy is taught in the first and second years by lectures, recitations, section demonstrations and dissection. A review quiz to prepare for State and hospital examinations is held during the fourth year. The course in anatomy is arranged to correspond as far as possible with the courses in physiology and histology.

Lectures are confined to practical applied anatomy of the bones and joints, and follow the recitations on these subjects. In the second year the lectures are devoted to regional, applied and surgical anatomy, the students being already well grounded in descriptive anatomy. The order of subjects is head and neck; thoracic, abdominal and pelvic cavities and viscera and perineum.

One lecture a week is given during the second year by the Professor of Practical Anatomy on the development and gross anatomy of the nervous system, the gross anatomy and relations of the extremities and the viscera.

Professor Gage will give six lectures on embryology during the month of March to first-year students.

Descriptive Anatomy is taught by recitations, section demonstrations and dissection.

Recitations, from standard text-books, are held by the Instructor in Anatomy twice a week for each section of the first-year class and once a week for each section of the second-year class. During the first year bones, joints, muscles, arteries and veins are recited upon; during the second year the nervous system and the viscera. Written reviews are held at intervals under the direction of the Professor of Anatomy, the last of which is a general review or examination of the year's work. In the first year the students of each section begin to recite upon the bones of that part which they are to dissect at the end of the first month, and so on through the second and third months.

PRACTICAL ANATOMY.

Section Demonstrations are conducted by the Professor and Assistant Demonstrators of Practical Anatomy once a week for each section during the first and second years. During the first three months of the first year the students are prepared for their dissection by recitations in the class-room, upon the bones of the part they are to dissect in the following month, and by section demonstrations on the cadaver, by means of which they are taught how to dissect, what to find, and where to find it. In addition, one preliminary demonstration is given weekly from October to January on the thoracic, abdominal and pelvic viscera to prepare students for the course in physiology and histology by demonstrating the organs whose function and structure they are to study. After this the joints are demonstrated and the nervous system is begun. In the second year the brain and nervous system, organs of sense, viscera, and perineum are demonstrated.

Dissection.—The dissection of six parts (two courses) is required, and more may be done at the option of the student. Three to six parts may be dissected in the first year, which is especially arranged to provide ample time for dissection. Students are advised to dissect in the second year also, even if the required six parts have been completed. In the first year,

dissection is commenced after the recitations and section demonstrations of the first month have prepared each student of the part assigned, and so on for the first three parts.

In the dissection of the second three parts the work of the first course, including the joints, is reviewed and, in addition, the dissection of the viscera and minuter parts is required. Students are examined and marked on the dissection of each part required. Prepared bones are loaned to students during the session from a large collection kept for this purpose.

Preliminary training in comparative anatomy is very desirable. A practical in addition to a written examination is held by the Professor of Anatomy at the end of the second year. At the end of the first year there is a written review or examination on the work of the year.

Advanced, Special and Post-Graduate Courses.—Facilities are offered to students and the medical profession for pursuing advanced, special and post-graduate courses in practical anatomy.

Furthermore, during the months of May and June a course in applied anatomy will be inaugurated consisting of practical work with demonstrations on the cadaver.

PHYSIOLOGY.

AUSTIN FLINT, M.D., LL.D., *Professor of Physiology.*

Instructor,

DR. JOHN A. HARTWELL,

Assistant,

DR. LOUIS NEUMANN.

Instruction in this branch is given by lectures and recitations, during the entire session, to first-year and second-year students.

Lectures.—The lectures by the professor cover the field of medical physiology within the first two years. The first ten lectures of the second-year course, devoted to the special senses, are given to the second-year class and the fourth-year class together. Fourth-year students are thus enabled to review the special senses as an introduction to the study of ophthalmology

and otology. Throughout the entire course on physiology, special attention is paid to its applications to practical medicine and surgery, much time being devoted to what may be called applied physiology. Physiological chemistry, anatomy and histology are taught only to the extent essential to a comprehension of the physiology of the systems and organs of the body. These subjects are completed by practical laboratory work.

Recitations. — First-year students recite twice a week, completing the subject of human physiology, as taught by the professor, except the nervous system and the special senses. Second-year students recite twice a week up to Dec. 25, and once a week after Jan. 1, on the special senses and the nervous system. They also briefly review the work of the first year. Review recitations for State Board examinations are held for fourth-year students.

CHEMISTRY, PHYSICS AND TOXICOLOGY.

RUDOLPH A. WITTHAUS, M.D., *Professor of Chemistry.*

Assistant Professor,

DR. IVIN SICKELS.

Instructors,

DR. LOUIS W. RIGGS, DR. CHARLES G. L. WOLF.

Assistant,

CARROLL D. PARTRIDGE.

Lectures.—Students of the first year will receive two lectures each week on physics, the divisions of the subject being considered in the following order: General properties of matter and force, mechanics, hydrostatics, pneumatics, optics, electricity, heat and acoustics. The lectures will be abundantly illustrated, and the relations of physics to surgery and medicine will be particularly considered.

During the second year students will attend two lectures weekly. Organic chemistry will be considered in the earlier part of the term to an extent sufficient to impart a knowledge of the principles of combination of the carbon compounds and the

properties and relationships of those which are of physiological, toxicological or therapeutical interest. The lectures during the latter part of the second year will be upon physiological chemistry.

During the third year one lecture will be given weekly on toxicology for twenty weeks. In these lectures the medical and medico-legal bearings of the subjects will be chiefly considered.

Recitations.—Students of the first year will recite twice each week on physics and the principles of chemistry and mineral chemistry. Those of the second year will recite once weekly on organic and physiological chemistry.

Laboratory Work.—Laboratory instruction will be given students of the first year four hours weekly during the entire session. This course will consist of an experimental study of the commoner elements and compounds in illustration of the recitation course, and of training in the processes of qualitative analysis of inorganic substances, and poison, mineral and organic.

Students of the second year will receive laboratory instruction two hours weekly during the term in physiological and clinical chemistry.

Each student is fully supplied with all apparatus and chemicals required, except urinometers, which are carefully corrected for the student that they may serve for future use.

These courses are personally conducted by the Professor of Chemistry and Physics and Assistant Professor, assisted by the instructors.

First-year students presenting satisfactory evidence of having performed equivalent work in chemistry and physics will be excused from first-year work in this department, and be given advanced laboratory work equivalent in hours to that omitted.

MATERIA MEDICA AND THERAPEUTICS.

HENRY P. LOOMIS, M.D.,

*Professor of Materia Medica and Therapeutics.**Instructors,*

DR. WARREN COLEMAN.

DR. EDMUND P. SHELBY.

Clinical Assistant,

DR. RUSSELL BELLAMY.

Instruction is given in this department by means of lectures, clinical instruction, recitations and practical laboratory work.

Lectures.—These are given by the professor twice a week to the third-year students and once a week after Dec. 1st, to the fourth-year students. They are confined almost exclusively to therapeutics, as it is believed that materia medica can best be taught by recitations and by laboratory work.

The lectures to the third-year students will consider the therapeutic uses of the most important drugs from the standpoint of the drug itself, such as the methods of prescribing the drug and the conditions for which it is given; only so much of the physiological action of the drug will receive attention as will explain its therapeutic value.

The lectures to the fourth-year students will be confined almost exclusively to a consideration of the systematic treatment of the different diseases. The plan of treatment will be given in detail, with definite instruction as to the drugs to be used and the preparations which are most reliable.

Lectures will be given on remedial agents other than drugs, such as massage, dietetics, climatology, mineral waters and hydrotherapy.

Clinical Instruction.—A new departure in the teaching of therapeutics will be made by affording the students of the third and fourth years opportunity to observe the effects of the different remedies on the natural course of disease. To accomplish this the classes will be divided into small sections and taken by the professor into the wards of Bellevue Hospital. Actual practice

is given in the employment and application of the various therapeutic agents used in medicine, such as the hypodermic syringe, aspirators, leeches, cups, cauteries, stomach-tube and stupes. The hydropathic establishment connected with this hospital is one of the most complete in the country. Here to small sections will be demonstrated the various applications of water to the treatment of disease—such as baths, packs, douches etc. A professional masseur will show the technique of massage and the Swedish movements. The treatment of the different diseased conditions observed will be systematically studied, and opportunities will be given to the members of the class to make personal examination of the patients and to watch the modification of disease produced by the remedies prescribed. The clinical work of the third and fourth years affords abundant opportunities for further training in practical therapeutics. A general medical clinic will be held by the professor once a week in the amphitheatre of Bellevue Hospital, at which special attention will be given to the treatment of the diseases under consideration.

Recitations.—Students of the third year will recite to the instructor twice a week from a standard text-book. During the fourth year a recitation will be held once a week on therapeutics.

The recitations will embrace a study of the action of all the more valuable remedial agents in connection with the description of the drugs themselves.

Each student will be thoroughly drilled in prescription-writing and in the doses of the more important drugs.

Examinations will be held at stated times during the session by the professor to enable him to judge of each student's progress.

Laboratory Work.—The course of laboratory instruction is taken during the second year, and consists of six hours each week for half the year. The class is divided into small sections, and is under the personal supervision of the instructor. The method of teaching is distinctly practical. The student is made familiar by the laboratory work with the physical and chemical properties of drugs. This course includes such subjects as the forms of drugs, their weight and bulk, the measurement of solid and fluid

drugs, methods of administering medicines, particularly with reference to appropriate combinations, and the study of solubilities. The subject of incompatibilities is clearly demonstrated.

Prescription-writing is taught throughout the course, and each prescription written is compounded by some member of the section.

The materia medica laboratory is equipped for pharmaceutical instruction, and students are taught by practical exercises in the preparation and compounding of drugs.

The laboratory is provided with a full assortment of crude drugs and the various preparations of the materia medica, also with complete appliances for instruction in the remedial agents which are not medicines. Advanced students will be given opportunity to study experimentally the physiological action of drugs.

MEDICINE.

W. GILMAN THOMPSON, M.D., *Professor of Medicine.*

Professors of Clinical Medicine,

ALEXANDER LAMBERT, M.D.,	CHARLES E. NAMMACK, M.D.,
WARREN COLEMAN, M.D.,	LEWIS A. CONNER, M.D.

Instructors,

DR. DEVER S. BYARD,	DR. C. N. BANCKER CAMAC,
DR. SHERWOOD B. IVES.	

Assistant,

DR. RUSSELL BELLAMY.

The Course of Medicine, extending over three years, is so graded that the student pursues a logical sequence of work throughout. No didactic lectures upon Practice of Medicine are delivered, their place being wholly taken by bedside instruction and recitations. The complete course comprises the following subdivisions (the Roman numerals indicate the years of the course in medicine, not those of the curriculum):

- I. Recitations from an elementary text-book.
Normal Physical Signs of the Chest.
 - II. Recitations from an advanced text-book, including written reviews.
Abnormal Physical Signs of the Heart and Lungs.
Bedside History-taking.
Bedside course in Symptomatology.
Clinical Pathology.
Bedside course in General Medical Diagnosis.
Eighteen lectures on General Symptomatology.
General Hospital Medical Clinics.
 - III. Advanced bedside course in Symptomatology and Diagnosis.
Demonstrations of patients by the student before the class.
Courses in the Out-Patient Clinic in the Heart and Lungs and General Medicine Classes.
General Hospital Medical Clinics.
Medical Conferences.
Twelve lectures upon Diatheses, Toxæmias etc.
Elective advanced work in Clinical Diagnosis (Clinical Microscopy, History-recording etc.).
Review quizzes for State Board examinations.
- The details of the methods of instruction in medicine for each year of the curriculum are as follows:

I. SECOND YEAR STUDENTS.

Recitations.—Second-year students begin the study of medicine with systematic recitations from an elementary text-book, in which the subjects of nomenclature, etiology, morbid anatomy and typical symptoms only are dwelt upon.

Physical Diagnosis.—Normal physical diagnosis of the chest is taught to sections of ten students each in classes from the Dispensary under Dr. Byard. Each student is required to map out upon the patient the normal positions and sounds of the thoracic viscera, and toward the end of each course of twelve lessons a few abnormal cases are introduced for comparison.

II. THIRD-YEAR STUDENTS.

Recitations.—Third-year students recite twice a week from an advanced text-book on practice, special emphasis being given to symptomatology, complications, diagnosis and treatment.

•Written reviews are held at intervals to familiarize the student with examinations. All recitations are obligatory and the recitation marks received form an important component of the final examination marks of the year.

Ward Work.—Systematic and obligatory ward work is begun in classes not exceeding fifteen students each, who accompany the Professor of Medicine on routine rounds through the hospital wards. Professor Thompson instructs at the Presbyterian Hospital until January, and at Bellevue until the close of the session. Repeated illustrations of all the common diseases are studied, and the advantage to the student of personally examining many cases of such diseases as typhoid fever, pneumonia, nephritis, cardiac ailments, etc., in different stages of development, and of following their daily progress, far outweighs the obsolete system of attendance upon didactic lectures. The student is first taught to observe and describe symptoms and investigate etiology, and as he attains proficiency is required to make diagnoses, offer prognoses and suggest treatment.

General Diagnosis.—Dr. Coleman gives a special course in general medical diagnosis, in which at one lesson the student is required to examine, compare and report upon each variety of pulse found in the ward; at another upon each variety of cachexia, anæmia or œdema; at another, upon each variety of abnormal liver or spleen; and so on, comprising all the important physical examinations.

Clinical Laboratory Courses are conducted under Dr. Camac's supervision in immediate connection with the study of hospital and dispensary cases. In this laboratory the student acquires methods and technique which he is required to put in practice with patients. The laboratory is also used extensively by the visiting staffs of the Hospital and Out-Patient clinic for completing the data of their cases.

The class is divided into small sections, so that each member receives the personal assistance of the demonstrator. At the conclusion of the course a written examination is held, upon the result of which, as well as upon the character of the work done, each successful student is given a certificate to the effect that he has completed the course. Upon the presentation of this certificate to the demonstrator in charge, the student is allowed the use of the laboratory and its apparatus for the study of cases in the wards. When assigned to cases at the general medical clinic the student is required to report the result of his examination of the sputum, blood, urine etc. Students of the fourth year, reporting at the medical conferences, for which longer time is allowed for preparation, make more extended research in the laboratory. Students are also, from time to time throughout the year, assigned to study cases in the Hospital and Dispensary; records are kept of these cases from which valuable clinical deductions may be made.

The apparatus employed is of such simple nature that it can readily be transported to the bedside, the work being thus essentially practical and such as is a direct guide to diagnosis. The student *himself* uses the apparatus so that he may become familiar with its care and application.

Following is a brief outline of the course:

BLOOD.—Technique of obtaining blood specimens; normal constituents of blood; blood formation in bone marrow; corpuscle counting and hæmoglobin estimation; technique of fixing and staining specimens; diseased conditions determined by differential counting; study of blood-serum diagnosis; leucocytosis; malarial and other blood parasites; medico-legal value of blood stains.

SPUTUM.—Collection and examination of the gross specimen; disinfection of sputum cups, etc.; specimens of sputum in asthma, pneumoconiosis, tuberculosis, gangrene and hemorrhage from the lungs, pneumonia etc.; diphtheria and other bacilli.

GASTRIC CONTENTS.—Examination of vomitus; administration

of test meals; method of obtaining and examining gastric contents; lavage.

FÆCES.—Method of obtaining and examining; intestinal parasites and ova.

URINE.—Microscopic examination with reference to diagnosis; gonococci, tubercle bacilli, etc., seminal fluid in its medico-legal aspect, crystalline deposits.

EXUDATIONS AND TRANSUDATIONS.—Ascitic and pleuritic effusions, cystic contents, vaginal discharges.

Each student is furnished typical specimens which he stains and studies at the demonstrations and preserves for future reference and comparison.

Physical Diagnosis.—Physical diagnosis of abnormal conditions within the chest is taught by Professor Lambert to classes not exceeding a dozen students each. This course of twelve lessons for each class is very comprehensive, owing to the large attendance at the class of heart and lung diseases of the Bellevue Out-Patient Department, from which the patients are derived.

General Medical Clinics.—General medical clinics are held weekly in the amphitheatre of Bellevue Hospital by the Professor of Medicine. At these clinics students read written histories of cases which they have studied on the previous day. They are required to demonstrate their findings upon the patient and are questioned before the entire class in regard to diagnosis, etc. These clinics are also utilized by the Professor of Medicine to exhibit cases of exceptional rarity or difficult diagnosis. A second general medical clinic is held weekly in the Bellevue amphitheatre by the Professor of Therapeutics, at which the effects of treatment are made the prominent feature.

Lectures.—A course of eighteen lectures upon general symptomatology is given by the Professor of Medicine, which is designed as introductory to the systematic bedside teaching which he conducts upon hospital rounds.

III. FOURTH-YEAR STUDENTS.

Fourth-year students attend the general ward classes and amphitheatre clinics with the Professor of Medicine as described

for the third year, and also make systematic rounds through the wards with Professors Lambert and Nammack when on duty in Bellevue Hospital, and with Dr. Conner at the Hudson Street Hospital.

Lectures.—A course of twelve lectures is given by the Professor of Medicine upon such general topics as the diatheses, toxæmias, etc.

Medical Conferences.—Under Dr. Coleman's direction, students are assigned to special cases which they study in detail for several weeks, reviewing the literature of the subject, and which they then report in writing at a medical conference, at which their fellow-students are called upon to offer criticisms and general discussion.

Students also attend special classes in the Dispensary and during the latter part of the year recite in a review quiz in preparation for hospital and State Board examinations. An elective course in advanced clinical pathology and diagnosis is offered in the fourth year.

SURGERY.

LEWIS A. STIMSON, M.D., *Professor of Surgery.*

Professors of Clinical Surgery.

FREDERIC S. DENNIS, M.D.,	FREDERICK W. GWYER, M.D.,
GEORGE WOOLSEY, M.D.,	FRANCIS W. MURRAY, M.D.,
FREDERICK KAMMERER, M.D.,	PERCIVAL R. BOLTON, M.D.,
ALEXANDER B. JOHNSON, M.D.	

Instructors,

DR. JOHN ROGERS, JR.,	DR. BENJAMIN T. TILTON,
DR. ARCHIBALD E. ISAACS.	

Assistants,

DR. WILLIAM F. STONE,	DR. H. M. ARCHER.
-----------------------	-------------------

Surgery will be taught in the recitation room, at the bedside, at hospital clinics, and by lectures.

In the second year the students are required to attend

recitations on the principles of surgery two hours a week throughout the term. For this purpose the class is divided into small sections to insure thorough work; so far as time permits instruction will be given at the bedside.

In the third year recitations are continued upon regional surgery; the class is instructed in sections in Bellevue Hospital in history-taking and methods of surgical examination and diagnosis, two or three hours a week for part of the term; bedside instruction is given daily in several hospitals to small groups, and formal clinics are held in Bellevue, New York, and other hospitals; about thirty lectures will be given by the Professor of Surgery, and a clinic for diagnoses is held once a week at which the students are required personally to examine and report upon the cases.

In the fourth year the students will receive clinical instruction in small groups in several hospitals and dispensaries upon general surgery and the special branches,—eye, ear, nose and throat, genito-urinary diseases, dermatology and orthopædics; will attend the clinics and will have a review quiz in preparation for examination.

The members of the sections are trained in the examination of patients, the dressing of wounds and fractures and the administration of ether.

The opportunities for instruction in the special branches are exceptionally ample. There will be several clinical teachers in each subject, each with hospital and dispensary services. The student will be enabled directly to examine and study cases, and will have a certain choice as to the time given to each branch.

Operative surgery will be taught in the fourth year in sections. The course consists of recitations, work upon the cadaver and bandaging. As the material is abundant each member of the class will perform all the principal surgical operations.

OBSTETRICS.

J. CLIFTON EDGAR, M.D., *Professor of Obstetrics and Clinical Midwifery.*

Instructors,

DR. GEORGE D. HAMLEN, DR. GEORGE G. WARD,
 DR. GEORGE P. SHEARS,
 DR. GUSTAVE SEELIGMANN.

Instruction in obstetrics will be given during the second, third and fourth years by

1. Recitations.
2. Illustrative Lectures.
3. Obstetric Clinics and Conferences.
4. Attendance upon Cases of Confinement.
5. Manikin Practice and Section Work.
6. Obstetric Histology, Pathology and Bacteriology.

1. Recitations from a standard text-book will be held by the instructor in obstetrics during the second year upon the physiology, and during the third upon the pathology of obstetrics, the latter including obstetric surgery.

These recitations are so scheduled as to cover the entire field of the subject laid out for the college year, are supplementary to the work of the Professor of Obstetrics during each of these two years and prepare the student for an intelligent appreciation of his subsequent illustrative lectures, obstetric conferences, attendance upon cases of confinement, clinics and manikin practice.

2. The Illustrative Lectures comprise a systematic course, running through the third year, upon the physiology and pathology of obstetrics.

These lectures are theoretical to a limited extent only, being mainly demonstrative and illustrative in character. To this end ample blackboard space is used, as well as an abundant collection of pelvises, entire, normal and deformed, mesial sections of the

same and in addition a supply of diagrams, charts, carefully selected plaster composition and metal models, wet and dry preparations and instruments.

In conjunction with these lectures additional recitations are held by the Professor of Obstetrics upon the subject-matter of the college year and for final review.

3. Obstetric Clinics and Conferences.—A weekly obstetric clinic, throughout the year, for both the third- and fourth-year classes is held at the Mothers' and Babies' Hospital. At this clinic abnormal cases of pregnancy, labor, and the puerperium are demonstrated, and the major and minor obstetric operations performed.

In addition, infant feeding and the care of mother and child during the lying-in period and early infancy are taught. During both the third and fourth year members of the class will be called upon in rotation to examine patients and discuss etiology, diagnosis, prognosis and treatment. These "obstetric conferences" will review the illustrative lectures, manikin work, and the student's work in his attendance upon confinement cases. By this means each individual student's standing in the department of obstetrics is ascertained. During the latter half of the second year six obstetric clinics are given at the same hospital. Attendance upon these clinics is optional.

4. Attendance upon Cases of Confinement.—Each candidate for the degree of M.D. is required to present satisfactory evidence to the effect that he has attended a definite number of cases of confinement.

An opportunity to fulfil this requirement is given at the Mothers' and Babies' Hospital, Lexington Avenue and 52d Street, where students receive this practical instruction from the Professor of Obstetrics and his assistants. Students are lodged and boarded in the above hospital for periods of two weeks or more and attend confinement cases both in the hospital building and in the tenement-house districts.

During the student's attendance upon his practical maternity course he may be excused from the exercises of the College

during the fourth college year, otherwise he shall take his practical obstetric course during vacation time.

5. Manikin Practice and Section Work.—Manikin practice is given to sections of the class during the fourth or senior year, and consists of work by individual students upon the manikins, under the supervision and criticism of an instructor.

The mechanical phenomena of labor; modes of delivery; abnormal presentations and positions with methods of delivery of each; version; application of the forceps; and other manipulations will be demonstrated by the instructor and performed by the student.

Diagrams, models, casts, wet and dried specimens, will be used in the demonstrations.

The sections will also be instructed at the bedside in the management of pregnant and parturient women, the care of the new-born child, abdominal palpation, and pelvic mensuration.

6. Obstetric Histology, Pathology and Bacteriology.—Laboratory instruction is given during the third year by the Professor of Pathology upon the histology of the vulva, vagina, uterus, ligaments, Fallopian tubes and ovaries in the pregnant and non-pregnant conditions, and upon the histology and pathology of the decidua, chorion, placenta, and umbilical cord.

GYNÆCOLOGY.

WILLIAM M. POLK, M.D., *Professor of Gynæcology and Obstetrics.*

Instructors,

DR. CHARLES C. BARROWS,
DR. GEORGE D. HAMLEN,

DR. WILLIAM TRAVIS GIBB,
DR. JOHN ASPELL.

Instruction in gynæcology is given by recitations, lectures, ward and class-room demonstrations, clinics, and laboratory demonstrations.

Six Lectures, upon topics selected for their special interest and importance to the subject as a whole will be given at the beginning of the third year.

Recitations are planned to cover the entire subject and are held one hour a week during the third year of the course. In order that the instruction throughout the department may be as nearly in unison as possible, a synopsis of the subject-matter of each lesson is prepared by the instructor and amended and revised by the head of the department. This is presented to the student for comparison with his text-book, to which it is an addendum. This method insures the co-operation of the head of the department in the groundwork of his subject and enables him to keep in touch with each student until his graduation.

Class-Room and Ward Demonstrations are given to sections of the fourth-year class twice a week throughout the year. This instruction includes the examination of patients by the students, who are thereby drilled in the methods of physical diagnosis as applied to the pelvis. When necessary the patients are anæsthetized.

The routine of treatment appropriate to the various conditions found is demonstrated, the students assisting when possible. In this way, not only is familiarity acquired with normal conditions within the pelvis and the various departures from this state induced by disease, but opportunity is afforded to see and put in practice actual measures of relief and to watch the subsequent course and treatment of these cases.

Operations are performed three days every week at which the several sections are enabled to study the detail of every operation peculiar to this department.

A General Clinic is held once a week at which students selected in rotation are required to examine the patient, make a diagnosis and suggest treatment. They are questioned before the class upon all these topics, as they relate to the case in hand, so as to determine the correctness of their conclusions. Should operation be called for, it is then performed.

Laboratory Demonstrations of secretions, discharges and specimens obtained from patients who come under observation during this course are made to sections of the third-year class as a part of the course in clinical pathology.

PATHOLOGY.

INCLUDING HISTOLOGY, GROSS AND MICROSCOPICAL
PATHOLOGY AND BACTERIOLOGY.

JAMES EWING, M.D., *Professor of Pathology.*

DR. BERTRAM H. BUXTON, *Instructor in Bacteriology.*

DR. OTTO H. SHULTZE, *Instructor in Gross Pathology.*

DR. JEREMIAH S. FERGUSON, *Instructor in Histology.*

DR. MAX G. SCHLAPP, *Instructor in the Histology and Pathology
of the Nervous System.*

DR. JAMES C. JOHNSTON, *Assistant Instructor in Pathology.*

DR. GUY D. LOMBARD, *Assistant Instructor in Histology.*

DR. HENRY S. PASCAL, *Assistant Instructor in Histology.*

DR. H. T. LEE, *Assistant Instructor in Pathology.*

DR. HERBERT S. CARTER, *Assistant Instructor in Gross Pathology.*

HISTOLOGY.

The work in this subject is conducted throughout the first and during a portion of the second years by laboratory exercises and by recitations. Laboratory exercises in two two-hour sessions weekly throughout the first year, and one two-hour session weekly during half of the second year, occupy in all about 150 hours for each student. The work covers the construction and use of the microscope, the methods of preparing microscopical sections of tissues, and the normal histology of the various tissues and organs of the human body. Attention is constantly directed to the application of the knowledge to physiological phenomena, and to further this end the courses in physiology and histology proceed as far as possible in unison. When desirable the structure of human tissues and organs is illustrated by sections of embryonal and lower-vertebrate tissues.

In the first year the blood and simple tissues, the gastro-intestinal tract and adnexa, and the respiratory, circulatory and genito-urinary organs are studied. In the second year the organs of the special senses and the nervous system are considered.

Recitations.—One recitation weekly for each student is held during the first year, and the first half of the second year, on subjects assigned from the text-book on histology. These recitations are designed to completely familiarize the student with the structure of the tissues considered during the previous week in the laboratory exercises.

An examination is held at the end of each year. The standing of the student in this, as in other subjects, is determined equally from the work in the laboratory exercises and in the recitations.

PATHOLOGY.

The course of instruction in pathology gives in the second year a preliminary course of lectures on the theory and classification of inflammations, which is designed to acquaint the student with the main facts in this field, to prepare him for preliminary studies in medicine and surgery and to establish a uniform system of nomenclature to be used in this and other departments. During one half the second year, also, attendance is required at one weekly demonstration—two hours' duration—in gross pathology, at which the more common visceral lesions are exhibited. This course is designed to accompany the preliminary recitation in medicine and surgery of the second year.

The main branches of the subject are grouped in the third year in order to secure the simultaneous study of the gross and microscopical changes in diseased tissues. In the fourth year the students perform autopsies, and attend one recitation weekly in review of the entire subject.

Microscopical Demonstrations in Pathology.—The microscopical demonstrations occupy three two-hour sessions weekly throughout the year, in all about 175 hours, and they constitute the main features of the instruction in this department. The specimens studied illustrate the topics of inflammation, tumors, auto-intoxications, infectious diseases and diseases of the nervous system, and are supplemented by lectures and special demonstrations by means of sections, charts, lantern slides and micro-photographs.

Demonstrations in Gross Pathology.—On the days alternating with the microscopical studies demonstrations of gross pathological specimens are given to the students of the third year, with the material collected from autopsies. With the viscera of each case is presented an epitome of the clinical history, and, when necessary, frozen sections of the organs, and the clinical symptoms are explained from the gross and microscopical changes in the altered tissues. The student here sees the viscera of many of the fatal cases which he has studied in the wards of the hospital.

Gross pathological diagnosis is taught as a separate branch of this subject, not bearing directly on the clinical aspect of the case.

These demonstrations occupy three two-hour sessions weekly, each section of the class attending one exercise weekly throughout the year.

Post-Mortem Examinations.—Students of the fourth year are required to perform autopsies under the direction of the instructor in gross pathology, when they are made familiar with the technical procedures required in ordinary and in medico-legal cases.

Recitations.—One recitation weekly is required of each student throughout the third and fourth years. In the third year they cover the work of each preceding week. In the fourth year they are held by the Professor of Pathology and cover the entire work of the department.

BACTERIOLOGY.

The laboratory course in bacteriology occupies three two-hour sessions each week for one third of the second year, in all sixty hours for each student. The student is first made familiar with the methods of disinfection, and is required to prepare the ordinary culture media. The work then proceeds to the methods of staining and examining bacteria: their artificial cultivation and the study of biological characters; the methods employed in the separation of species; the general relation of pathogenic bacteria to disease; and concludes with the biological analysis of air,

water, soil and milk. Cultures are made from the viscera of cases of the various infectious diseases, and the student is required to cultivate and identify the important pathogenic micro-organisms. The work is supplemented when necessary by the use of pure cultures, by the exhibition of anærobic cultures, and to a limited extent by inoculations in animals.

An Advanced Course in bacteriology is offered to those students who have been able in the first year to attend the course required in the second year.

This course includes the cultivation of other pathogenic micro-organisms, the separation of species, and the bacteriological examination of viscera secured at autopsies.

Advanced Courses and Original Research.—The abundant facilities of the Loomis Laboratory on the fourth floor of the new building can be offered to properly qualified students and practitioners of medicine who wish to pursue advanced courses of study on lines of original research, under the direction of special instructors.

SPECIAL DEPARTMENTS OF MEDICINE AND SURGERY.

DISEASES OF CHILDREN.

JOSEPH E. WINTERS, M.D., *Professor of Diseases of Children.*

Instructor,

DR. WILLIAM SHANNON.

Assistants,

DR. ROBERT S. ADAMS,

DR. WILLIS S. COOKE,

DR. WALTER A. DUNCKEL.

This department will embrace clinical instruction and section teaching in all the important diseases of infancy and childhood.

There will be one clinical lecture each week in the College building, and clinical lectures in the Willard-Parker Hospital on scarlet fever and diphtheria.

In connection with the Dispensary of the Children's Department in the new College building there will be an amphitheatre

for section teaching and isolation rooms for contagious diseases, so that students will have ample opportunity for the personal study of disease.

Three hours each week will be devoted to section teaching in the Dispensary to the students of the fourth year.

Students will be required to examine sick children and discuss the diagnosis and treatment of patients assigned to them.

Special attention is given to the hygiene and feeding of infants; the digestive disorders of infants; the dietetics of childhood and the food disorders of infancy and childhood; the anatomical and physiological peculiarities of infancy and childhood; and the influence these peculiarities have on the manifestations of disease in children.

One of the distinguishing features of this department will be the instruction of each student in the art of diagnosis, by the professor in charge.

There will be practical bedside illustrations of the management, care and therapeutics of all the acute diseases of infancy and childhood.

In the clinical laboratory microscopical examinations will be made of secretions and excretions, of lesions of the mouth and throat and of sections of anatomical lesions of the important diseases of childhood.

SURGICAL DISEASES OF THE GENITO-URINARY ORGANS.

SAMUEL ALEXANDER, M.D.,
Professor of Genito-Urinary Surgery.
Instructors,

DR. MARTIN J. ECHEVERRIA, DR. GEORGE K. SWINBURNE,
 DR. CHARLES L. GIBSON.
Assistant,
 DR. NEWTON B. WALLER.

The course is required of students during the third and fourth years, and is designed to give instruction in diagnosis and treatment of the surgical diseases of the genital and urinary organs

and of syphilis. It consists in recitations, lectures, clinics and bedside instruction in Bellevue Hospital, and section work in the Dispensary of the College.

Lectures.—One lecture a week from the opening of the term to the first of December will be given by the professor in the lecture-room of the College. These lectures will be illustrated by lantern slides, charts, and drawings, and will be principally devoted to the principles of urinary surgery and syphilis, and are designed to serve as an introduction to the clinical courses. These lectures are required of students during the third and fourth years.

Recitations.—Recitations are given to the students of the third and fourth years from standard text-books by the instructors in the department of general surgery.

Clinic.—A clinic is held in the amphitheatre of Bellevue Hospital once a week after the first of January by Professor Alexander. At this clinic the principal operations upon the male urinary and genital organs are performed and explained, and special attention is given to the subject of diagnosis. Attendance of the clinics is required of students during the third and fourth years.

Section Teaching at the Out-Patient Clinic.—This is required of students during the third year. The class is divided into sections of small size, and the instruction is given either by the professor in charge of the department or by his chief of clinic. Special attention is given in this course to the diagnosis and treatment of the venereal diseases, and to the use of the special instruments.

Section Teaching in Bellevue Hospital.—The fourth year class is divided into sections of small sizes and instruction is given in the wards of Bellevue Hospital by Professor Alexander.

This course is devoted principally to exercises in the diagnosis of diseases of urinary organs, to instruction in the use of special instruments and apparatus, and to the post-operative treatment of cases. The courses continue throughout the entire session held twice weekly.

Special Courses to Advanced Students.—A number of special courses in this department will be opened to graduates in medicine, which will be conducted by the professor in charge, and his assistants. Information in regard to these courses may be obtained from the Secretary of the Faculty.

NERVOUS DISEASES.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System.

Instructor,

DR. JOSEPH FRAENKEL.

Assistants,

DR. MAX G. SCHLAPP,

DR. SAMUEL M. EVANS.

The regular schedule work consists of a preliminary series of ten lectures, given by Professor Dana, in which the general outline of the work for the year is given, with demonstrations of the general anatomy, general symptomatology and methods of examination of the nervous system. During the rest of the term clinical lectures on nervous diseases are given weekly in the amphitheatre of Bellevue Hospital. Section work is also given weekly to classes in the wards of Bellevue Hospital during the whole term.

During two months of the term special section work is given to the students in the fourth year, under the charge of the instructors and clinical assistants. In this way the student before graduation becomes practically familiar not only with the functional and chronic, but with the more acute forms of nervous diseases. The opportunities for seeing such diseases in the alcoholic pavilion, in the insane pavilion, and in the general wards of Bellevue are probably unsurpassed.

Opportunities for special study in clinical neurology are also given, to such advanced students as may select it, in the Bellevue Dispensary and in the neurological clinic connected with the College.

It is considered of supreme importance that the student of nervous diseases be thoroughly grounded in the more elementary facts of the anatomy and physiology of the nervous system. It is for this purpose in particular that certain preliminary didactic lectures with quizzes are given.

To carry out this purpose further, courses in the gross and microscopical anatomy of the nervous system are provided for special students and also courses in neuropathology, with opportunities for original investigation for those who so desire it.

MENTAL DISEASES.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,
Professor of Mental Diseases.

Assistants,

DR. WILLIAM HIRSCH, *Instructor.*

DR. GEORGE DE FOREST SMITH.

The Professor of Mental Diseases will give a series of clinical and didactic lectures once a week for two months, illustrated by the lantern and cinematograph. Clinics will also be given at the asylum once a week during the latter part of the course.

Instruction will also be given in diagnosis, the legal commitment of the insane and the relations of insanity to medical jurisprudence.

DERMATOLOGY.

GEORGE T. ELLIOTT, M.D., *Professor of Dermatology.*

Instructors,

DR. THURSTON G. LUSK,

DR. HENRY H. WHITEHOUSE.

Instruction in Dermatology will be given by the clinical professor and his assistants by means of lectures to the whole class and also by section work. No teaching will be given didactically, but the cutaneous diseases will be demonstrated on the living subject. Abundance of material for such instruction is obtainable and the student can thoroughly familiarize himself with the more common as well as with the rarer diseases of the skin by

actual personal contact and observation. Attention is particularly paid to the diagnosis and the etiology of skin diseases, but their therapeutics also receive due consideration.

LARYNGOLOGY AND RHINOLOGY.

CHARLES H. KNIGHT, M.D., *Professor of Laryngology.*

Instructor,

Assistant,

DR. JAMES E. NEWCOMB,

DR. H. ARROWSMITH.

Instruction in Laryngology and Rhinology is given by a clinical lecture at the College by the professor of the department. The subjects then considered are demonstrated to the fourth-year students by the assistants on Saturdays at the Demilt Dispensary and at the Manhattan Eye and Ear Hospital. The class is divided into sections, and each member is expected to examine patients and perform manipulations. The clinics are fully illustrated by plates and models, and, as far as possible, by clinical material.

OPHTHALMOLOGY.

CHARLES STEDMAN BULL, M.D., *Professor of Ophthalmology.*

Instructors,

DR. ROBERT G. REESE,

DR. COLMAN W. CUTLER.

Instruction in Ophthalmology consists in lectures at the College building once a week, and in sectional teaching two hours a week at the New York Eye Infirmary. The weekly lectures at the College are mainly didactic, and consider the subjects of physiological optics, the theory of the ophthalmoscope, refraction and accommodation, the anomalies of the ocular muscles, and the deep lesions of the eye which are not susceptible of clinical demonstration. Thus the entire field of ophthalmology is covered. The sectional teaching at the Eye Infirmary is devoted partly to clinical ophthalmology and the use of the ophthalmoscope, and partly to instruction in the errors of refraction and the rudiments of the fitting of lenses.

OTOLOGY.

GORHAM BACON, M.D., *Professor of Otology.*

Instructor,

DR. FRANKLIN M. STEPHENS.

Assistants,

DR. EARLE CONNER,

DR. GEORGE SLOAN DIXON.

During the first half of the third year a systematic course of weekly lectures is given. These lectures are practical in character, including a consideration of the anatomy and physiology of the ear and the various methods of examination. Patients are shown to the class in order to familiarize the students with the symptoms and character of the more important diseases.

For the fourth-year students, the class is divided into sections for clinical instruction in the Dispensary. Each student receives practical instruction from Professor Bacon and his assistants in the examination of patients, the use of the otoscope and the various methods of testing the hearing. The student is permitted to examine patients and, after a probationary period, to prescribe for them and thus gradually assume the duties of a clinical assistant. The students have also an opportunity of witnessing the more important operations in aural surgery, including intracranial complications.

ORTHOPÆDIC SURGERY.

NEWTON M. SHAFFER, M.D., *Professor of Orthopædic Surgery.*

Instructors,

DR. P. HENRY FITZHUGH,

DR. JOHN MCGAW WOODBURY.

Assistant,

DR. HENRY SCOTT.

The course of study in the Orthopædic Department includes a stated clinical lecture once a week, with detailed demonstrations in sectional work twice a week during two months of the year.

During the regular clinical course especial attention is given to the early recognition of the deforming diseases of childhood, also to the symptomatology, pathology and differential diagnosis of chronic and progressive deformities, including the mechanical and operative treatment.

In detail, the course consists of practical illustrations of methods of treatment, the apparatus used being thoroughly explained both in construction and in principle, attention being called to even minute points of construction and use. The operative side is fully dwelt upon, the indications for operative interference as an adjunct to the mechanical work being demonstrated. Ample clinical material is provided, and models of conventional forms of apparatus are placed at the disposal of students.

In the section and laboratory work the student is required to assist in the management of selected cases, to familiarize himself with the various methods of treatment, to construct the simpler forms of apparatus, to secure a practical knowledge of the details of construction of the more complicated instruments and to familiarize himself with the pathological conditions existing in the deformities of childhood.

A practical departure will be inaugurated in the Department of Orthopædics by making a fully equipped workshop the laboratory of orthopædic instruction.

HYGIENE AND SANITARY SCIENCE.

A Department of Practical Hygiene and Sanitary Science has been established this year.

The Objects of this department are: First. To afford to physicians connected with local health boards or public institutions, or otherwise interested in sanitary matters, special instruction in the various branches of practical hygiene and sanitary science. Second. To provide for the undergraduate students of Cornell both systematic obligatory instruction in the principles of hygiene, and further optional courses of advanced study.

Two Courses Annually.—While the undergraduate systematic course in General Hygiene will extend through the regular winter term, the post-graduate courses will be duplicated in two sessions of six weeks each to accommodate physicians coming from a distance.

The Fall Term will begin on the first Tuesday in October and continue for six weeks.

The Spring Term will begin on the third Tuesday in May and continue for six weeks.

THE PLAN OF INSTRUCTION.

Instruction will be given under the following classification:

Lectures in such subjects (*e. g.*, Sanitary Laws, etc.) as can only be taught in this manner, or in amplification of other methods of instruction.

Experimental demonstrations of sanitary methods and appliances.

Clinical instruction upon infectious diseases.

Visits to and demonstrations of the operation of sanitary processes (disinfection plants, vaccine, and antitoxin laboratories, etc.), and visits to hospitals, schools, demonstration of factories, model tenements etc.

Laboratory instruction.

LECTURES AND DEMONSTRATIONS.

Water Supply.—Characters of pure and impure water; sources and kinds of contamination; purification of water.

Air Supply.—Composition of air; sources and nature of contamination of air; simple tests for purity; respiration; consequences of overcrowding.

Food and Beverages.—The composition, adulterations, standards of purity and nutritive value of milk, milk products, cereal foods etc., and of beer, wine and spirits — Putrid poisons and food poisonings.

Disposal of the Dead.—The sanitary and medico-legal considerations of putrefaction, burial, cremation, embalming.

Infectious Diseases.—The nature and history of infection and theories of immunity.

Methods of Disinfection, etc. — Disinfectants, antiseptics and deodorants—Methods of disinfection of rooms, dejecta, clothing, bedding, carpets etc.—Isolation; quarantine ; vaccination; preventive inoculation—Routine work of sanitary officials with reference to infectious diseases.

General Hygiene.—A general consideration of its scope and practical application—Hygiene of schools, with special reference to the eyes and curvature of the spine—General and specific causation of Epidemics, modes of transmission and prophylaxis of the various diseases — Effects of climate on health — Occupation, diseases—Vital statistics.

Sanitary Engineering. — *Buildings* : Selection of sites; character of soil; exposure; surface and underground drainage; preparation of site; excavations; foundations; waterproofing; building materials; heating; lighting; ventilation; plumbing and drainage; sewage disposal in the country; sewage filtration; cesspools, etc. *Water Supply* : Protection against contamination; storage; protection against fire; distribution for fire service. *Factory Waste and Nuisance.*

Municipal Sanitation.—*Street Cleaning* : Sources and prevention of dirt; factors in work of street cleaning; systems and methods in use; snow removal; cost, and its relation to public health. *Refuse Disposal* : Town and city wastes; trade and factory refuse; analysis; systems in use; possible methods of treatment; cost and results. *Sewage Systems and Sewage Disposal* : Removal of sewage; methods of disposal and their relations to public health; cost and results. *Public Nuisances* : Smoke nuisance, etc.

Sanitary Laws and Regulations.—The statutory constitution of health boards, their powers and duties and those of health officers, state, local and metropolitan. Nuisances : what constitutes a nuisance; how abated; form of procedure; offensive trades, slaughter-houses, smoke nuisance, nuisance from noise etc. Legislation concerning : *A. Habitations*; tenement

houses; sweat shops; lodging houses; cellars; factories and workshops. *B.* Quarantine, federal and state. *C.* Purity of water supply. *D.* Purity of food and drugs. *E.* Infectious diseases; vaccination. *F.* Registration of vital statistics.

CLINICAL INSTRUCTION AND DEMONSTRATIONS.

Clinics on occupation neuroses, chronic lead, arsenic, and mercurial poisoning, alcoholism, etc., in Bellevue Hospital.

Ward demonstrations to small sections on infectious diseases, such as typhoid fever, tuberculosis, malaria, etc., in the wards of Bellevue Hospital, and on contagious diseases in the Willard Parker Hospital.

Visits, with Demonstrations, will be made to Quarantine, North Brothers' Island, and other hospitals possessing isolation rooms and disinfecting plants, to vaccine and antitoxin laboratories, etc.; to the tenement districts, model tenements, lodging-houses, and public and private buildings, illustrating faulty and perfected sanitary engineering; also to the plants of the Street Cleaning Department, and demonstrating the methods of street cleaning and the operation of disposal works.

LABORATORY INSTRUCTION.

Laboratory instruction will be given in the microscopic study of tissues illustrating principally the infectious diseases, as: Tuberculosis, syphilis, leprosy, pneumonia, typhoid fever, diphtheria, malaria, dysentery, yellow fever etc., in courses of twelve two-hour sessions.

[These courses require a general knowledge of the microscopical appearances of diseased tissues, in the absence of which students are recommended to attend the undergraduate course on this subject, which occupies one-half of the college year.]

Bacteriology.—An elementary demonstrative course of twelve two-hour sessions is provided for students who are unfamiliar with bacteriological technique. It includes: Methods of preparing culture media and of making artificial cultures and

inoculation; demonstration of pathogenic *mould fungi* and of cultures of pathogenic bacteria; preparation and examination of stained specimens; discussion of pathogenic action of, and demonstration of action of, antiseptics on bacteria; demonstration of methods of diagnosis of tetanus, tuberculosis and hydrophobia by inoculation; demonstration of elementary methods of bacteriological analysis of air, water and milk.

For students who are familiar with bacteriological technique there will be special advanced courses in practical laboratory work, in one or more of the branches detailed above. These advanced courses require daily attendance during the morning hours for a variable period.

Laboratory instruction is provided in **Clinical Pathology** in courses of six two-hour sessions, including examinations of pus, sputum, fæces (intestinal parasites), urine and blood, attention being also given to secretions from the nose and throat, with special reference to the early recognition of diphtheria.

Six two-hour demonstrations of gross pathology are given, illustrating the principal infectious diseases, cases of poisoning, and of violent and sudden death. The technique of autopsies, general and medico-legal, will also be demonstrated.

Special laboratory instruction is offered in the methods of analysis of water, air, food and beverages, and demonstrations of methods of examination of unwholesome meat, etc.

SUMMARY OF THE PLAN OF INSTRUCTION.

To be read in connection with schedules, pages 91-94.

FIRST YEAR.

1. Anatomy.—One lecture and two recitations each week throughout the year.

Section demonstrations.—Two hours weekly until January, then one hour a week for the remainder of the session.

Embryology.—Six lectures on embryology during the month of March.

Dissection.—Three to six courses of four weeks each, sixteen hours weekly.

2. Physiology.—Two recitations each week. One lecture a week during the first half and two lectures a week during the second half of the session.

3. Chemistry and Physics.—Two lectures each week on physics. Recitations two hours each week on inorganic chemistry. Chemical laboratory four hours each week throughout the session.

4. Histology.—Recitations one hour and laboratory four hours each week throughout the year.

5. Electives.—*a.* Laboratory pharmacology. *b.* Physiological chemistry. *c.* Bacteriology. These courses are open to certain advanced students as described on page 35 of the catalogue.

In the course of the session three written reviews are held in the subjects recited upon. The papers are examined by the professors of the respective branches.

SECOND YEAR.

1. Anatomy.—Surgical and regional anatomy. Three lectures weekly. Recitation one hour each week. One demonstration lecture weekly. Section demonstrations one hour each week. Dissection, one to three courses of four weeks each, eleven hours weekly.

2. Physiology.—Recitations two hours each week during the first half and one hour each week during the second half of the session, including a review of the work of the first year. Two lectures a week during the first half and one lecture a week during the second half of the session.

3. Organic and Physiological Chemistry.—Two lectures each week. Recitation once a week.

Laboratory organic and physiological chemistry. Two hours weekly for the entire session.

4. Histology.—Recitation one hour weekly and laboratory work two hours weekly for one-half of the session.

5. Pathology.—Ten lectures at the beginning of the year.

6. Gross Pathology.—One demonstration weekly, two hours duration, for half the year.

7. Pharmacology.—Laboratory work six hours each week for half the session.

8. Medicine.—Recitation one hour weekly.

Physical Diagnosis.—Three hours weekly for four weeks.

9. Surgery.—Recitations two hours weekly.

10. Obstetrics.—One weekly recitation. Six obstetric clinics (optional).

11. Bacteriology.—Laboratory work six hours a week for one third of the session.

12. Electives.—*a.* Bacteriology. *b.* Materia medica recitations of the third year. *c.* Manikin course in obstetrics. *d.* Obstetrical clinic.

The conditions under which certain students may avail themselves of these electives are stated on page 37 of the catalogue.

The study of the following branches is completed during the

second year, and the examinations on them are final: (1) Anatomy (written and practical); (2) Chemistry and Physics; (3) Pharmacology; (4) Physiology.

THIRD YEAR.

1. Medicine.—Recitations two hours each week. Physical diagnosis in sections in the Dispensary. General medical diagnosis or sections at the bedside. General medical clinics two hours each week in Bellevue Hospital. Ward visits in small sections with the Professor and Clinical Professors of Medicine in Bellevue and other hospitals. Eighteen introductory lectures.

2. Pathology.—Laboratory work six hours and recitations one hour weekly throughout the year.

3. Gross Pathology.—One demonstration weekly throughout the year.

4. Materia Medica.—Recitations two hours each week.

5. Therapeutics.—Lectures two hours each week; one hour a week bedside teaching in Bellevue Hospital throughout the year. Clinic once a week.

6. Obstetrics.—One illustrative lecture weekly. One recitation weekly. One clinic weekly.

7. Gynæcology.—Clinic in Gynæcology once a week. Recitation one hour each week. Lectures, six at the beginning of the year.

8. Surgery.—Lectures thirty hours. General surgical clinics, two each week. Bedside teaching, diagnosis and history-taking in sections in Bellevue Hospital. Ward work in small sections in Bellevue, St. Francis and the New York hospitals with the Professor and Clinical Professors of Surgery. Recitations on regional surgery two hours weekly.

9. General Pathology.—Recitations one hour weekly throughout the year.

10. Technique of Autopsies.—One exercise weekly for a portion of the year.

11. Toxicology.—Lecture one hour each week.

12. Diseases of Children.—Clinic one hour each week.

13. Genito-Urinary Surgery.—Lectures one hour a week until December 1st. Clinics one hour a week after January 1st. Section work one hour a week.

14. Neurology.—One hour a week for the first ten weeks. Clinics one hour a week for the following twenty weeks.

Bedside teaching in four hour periods for four weeks.

15. Dermatology.—Clinic one hour a week for one-third of the year.

16. Laryngology and Rhinology.—Clinic one hour a week for one-third of the year.

17. Ophthalmology.—Lecture one hour a week.

18. Otology.—Clinic one hour a week for one-third of the year.

19. Orthopædic Surgery.—Section work.

FOURTH YEAR.

1. Medicine.—Ward work in the hospitals. General medical clinics twice a week. Exercises in history-taking and in clinical microscopy continued. Twelve lectures. Recitations, conferences.

2. Surgery.—Ward work in the hospitals. General surgical clinics twice a week. Section work and clinics in the special branches. Operative surgery in sections. Recitations.

3. Therapeutics.—Lecture one hour a week after December 1st. Recitation once a week. Clinical instruction in Bellevue Hospital. Section work in the College Dispensary in the treatment of diseases and in the writing of prescriptions.

4. Obstetrics.—Attendance upon cases of confinement. Manikin practice and section work. One obstetric clinic weekly. Recitations.

5. Pathology.—One review recitation a week.

6. Technique of Autopsies.—One exercise a week for a portion of the year.

7. Gynæcology.—Clinic one hour each week and ward demonstrations two hours each week. Recitations.

8. Diseases of Children.—Section teaching three hours each week. Clinic one hour each week. Clinical pathology.

9. Genito-Urinary Surgery.—Lectures one hour a week until December 1st. Clinics one hour a week after January 1st. Section work twice a week throughout the session.

10. Neurology.—Twenty clinics. Section work one hour a week in Bellevue Hospital.

11. Mental Diseases.—Twelve lectures. Clinics once a week for two months.

12. Dermatology.—Section work.

13. Laryngology and Rhinology.—Fifteen lectures. Section work.

14. Ophthalmology.—Ten lectures. Section work.

15. Otology.—Six lectures. Section work.

16. Physiology.—Two lectures a week during the first five weeks of the session on the physiology of the special senses.

17. Orthopædic Surgery.—Fifteen lectures. Section work.

18. Hygiene.—Two lectures a week for two months. Section work and laboratory demonstration.

19. Review Recitations.—For State Board examinations. One hour a week in medicine, surgery, obstetrics and gynæcology, materia medica, therapeutics, chemistry, physiology, anatomy and pathology.

COURSES OF INSTRUCTION AS GIVEN AT ITHACA.

FIRST YEAR.

1. Anatomy. One lecture, two recitations and one demonstration weekly throughout the year. Dissection four to five parts. Approximately two hundred hours. Assistant Professor Kerr and Instructor Mix.

2. General Inorganic Chemistry. Four recitations and five hours of laboratory work (Dr. Kortright) weekly from September 27th to December 22d. Dr. Trevor and Assistants Ebersole, Derby and Turner.

5a. Qualitative Chemical Analysis. One recitation and five hours of laboratory work weekly from January 3d to March

22d. Associate Professor Dennis, Dr. Whittelsey and Assistants Fischer, Pettit and

5b. **Qualitative and Quantitative Urine Analysis.** One recitation and five hours' laboratory work weekly from March 25th to June 13th. Dr. Whittelsey and Assistant.

2a. **Experimental Physics.** Two lectures with demonstrations weekly throughout the year. Professor Nichols and Assistant Professor Merritt.

20. **Physiology.** One lecture and one recitation weekly for the first half-year; two lectures and two recitations weekly for the second half-year. Dr. Fish and Assistants Claypole and Fischer.

1. **Microscopy, Histology and Embryology.** One lecture, one recitation, and six hours' laboratory work weekly throughout the year. (The work in Microscopy begins September 27th, and continues till October 19th; the Histology begins October 22d, and continues until March 22d; the Embryology begins March 25th, and continues until June 13th.) Professor Gage, Dr. Kingsbury and Assistants Ross and Boxmeyer.

The numbers at the head of the courses are those given by the various departments giving the instruction, and are taken from the Cornell University Register.

SECOND YEAR.

2. **Anatomy.** Three lectures during the first and four lectures during the second half-year; one recitation and one demonstration weekly throughout the year. Dissection, three to four parts, approximately two hundred hours. Assistant Professor Kerr and Instructor Mix.

21. **Physiology.** Two lectures weekly during the first half-year; two recitations weekly throughout the year. Laboratory work five hours weekly from September 27th to December 22d. Dr. Fish, Assistants Claypole and Fischer.

21a. **Elementary Organic Chemistry.** Two lectures and one recitation weekly for the first half-year. Dr. Orndorff.

13b. **Toxicology.** Two and a half hours' laboratory work weekly during the first half-year. Dr. Chamot.

45 and 45a. Physiological Chemistry. Two lectures or recitations and five hours of laboratory work weekly for the second half-year. Dr. Orndorff and Mr. Teeple.

26. Materia Medica. Five hours' laboratory work weekly from January 4th to March 24th. Dr. Fish and Assistants Ross and Boxmeyer.

43. Bacteriology. One lecture and five hours of laboratory work weekly throughout the year. Dr. Moore, Instructors Reed and Wright.

9. Medicine. One recitation weekly throughout the year. Dr. Paul R. Brown.

10. Surgery. Two recitations weekly throughout the year. Dr. Coville.

11. Obstetrics. One recitation weekly throughout the year. Dr. Paul R. Brown.

12. Pathology. Ten lectures during the second half-year. Dr. Ewing.

EXAMINATIONS.

REQUIREMENTS FOR ADVANCEMENT IN COURSE.

Students are advanced in course from one year to the next upon passing examinations in the work of that year. As in the academic department of the University, the work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year. Students who have not succeeded in passing all their examinations will be allowed to enter upon the next year's studies, provided they pass examination in the subjects failed in at the beginning of the next year following.

Examinations for advancement in course, graduation and admission to advanced standing are held at the close of the year on the work of the year. In each laboratory course extending through a part of the year only the examination is held at the close of the course.

Examinations for conditioned students and those desiring admission to advanced standing who have not taken the spring examinations are held during the first fortnight of the fall term.

The subjects examined upon are divided into major and minor subjects.

The minor subjects embrace laboratory courses and those in which instruction is given by recitations only.

Subjects of Examination for Admission to the Second Year.

Major Subjects..Anatomy (except the nervous system, viscera and organs of special sense).

Inorganic Chemistry and Physics.

Physiology (except the nervous system and organs of special sense).

Minor Subjects..Histology (except the nervous system and organs of special sense).

Laboratory Inorganic Chemistry.

Conditions allowed (at the spring examinations): 1 Major and 1 Minor; or 2 Minor.

NOTE 1. In each of the laboratory courses of the first and subsequent years, students whose marks fall below a certain percentage will be allowed one re-examination within two weeks of the completion of the course, failing in which they must repeat the laboratory course with the next succeeding section.

Students whose marks fall below this percentage in the chemical laboratory cannot be re-examined, but must repeat the course with the next succeeding section.

NOTE 2. In each of those branches in which recitations are held throughout the year, there shall be two written reviews conducted by tutors and supervised by the professor in charge of the department, and also a final written review conducted by the professor himself at the close of the year. The two written reviews shall be held, the one about the end of November, the other about the close of February.

NOTE 3. All conditions must be successfully passed before entrance into the next succeeding year will be allowed.

Subjects of Examination for Admission to the Third Year.

Major Subjects..Anatomy.

Organic Chemistry.

Physiology.

Minor Subjects. . Medicine.

Materia Medica (elective).

Surgery.

Obstetrics.

Bacteriology.

Normal Histology (central nervous system and
organs of special sense).

Pathology.

Physical Diagnosis.

Pharmacology.

Laboratory Organic Chemistry.

Conditions allowed: 1 Major and 1 Minor; or 2 Minor subjects.

(See Notes 1, 2 and 3, page 80.)

Subjects of Examination for Admission to the Fourth Year.

Major Subjects. . Materia Medica.

Toxicology.

Pathology.

Minor Subjects. . Obstetrics and gynæcology.

Medicine.

Surgery.

Pediatrics. } Clinical Paper.

Neurology. }

Conditions allowed: 1 Major and 1 Minor; or 2 Minor.

(See Notes 1, 2 and 3, page 80.)

Subjects of Examination for Graduation at the end of the Fourth Year.

Medicine.

Surgery.

Obstetrics and Gynecology.

Therapeutics.

Special Subjects:	{	Hygiene.	{	Clinical Paper.
		Mental Diseases.		
		Neurology.		
		Ophthalmology.		
		Otology.		
		Rhinology.	{	Clinical Paper.
		Pediatrics.		
		Dermatology.		
		Genito-Urinary Diseases.		
		Orthopædics.		

The recitation average in the primary branches reviewed in this year will be taken into consideration in determining the class standing at the end of the year.

Students conditioned in only one subject at the end of the fourth year will be given an opportunity to make up the condition within two weeks. If the second examination is satisfactory he may receive his degree at the Commencement at Ithaca.

Those conditioned in more than one subject or who fail to pass in the second examination just mentioned must repeat the work of the fourth year.

REQUIREMENTS FOR GRADUATION.

1. Candidates for the degree of doctor of medicine must have studied medicine for four full years in an accredited medical college, and the fourth year at least must have been spent in the Cornell University Medical College.

2. Candidates must present satisfactory evidence of good moral character and of being not less than twenty-one years of age.

3. Candidates must file with the Secretary of the Faculty the Regents' medical student's certificate as evidence of having complied with the requirements for admission (see page 25).

4. Candidates must have dissected at least six parts in anatomy (see page 41). They must, further, have taken the regular course of two weeks at the Mothers' and Babies' or other Hospitals of equal standing.

5. In addition to the yearly examinations above specified for advancement in course, candidates must pass at the end of the fourth year examinations in medicine, surgery, therapeutics, obstetrics and gynæcology, and the special branches as are specified on pages 81 and 82).

6. Candidates rejected at the final examination will not be re-examined until after having repeated their fourth year of study.

7. The degree will not be conferred upon any candidate who absents himself from the public Commencement without the special permission of the Faculty.

8. The Faculty reserves the right to terminate the connection of any student with the institution *at any time* on the ground of what they may deem moral or mental unfitness for the profession, or improper conduct while connected with the College.

REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN THE STATE OF NEW YORK.

All requirements for admission should be filed at least one week before examination.—They are as follows:

1. Evidence that applicant is more than twenty-one years of age (Form 1).

2. Certificate of moral character from not less than two physicians in good standing (Form 2).

3. Evidence that applicant has the general education required preliminary to receiving the degree of bachelor or doctor of medicine in this State (medical student's certificate. See examination handbook).

4. Evidence that applicant has studied medicine not less than four full school years of at least nine months each, in four different calendar years, in a medical school registered as maintaining at the time a satisfactory standard. New York medical schools and New York medical students shall not be discriminated against by the registration of any medical school out of the State, whose minimum graduation standard is less than that fixed by statute for New York medical schools.

The increase in the required course of medical study from three to four years did not take effect till January 1, 1898, and does not apply to students who matriculated before that date and will receive the degree of M.D. before January 1, 1902 (Form 1).

First exemption: "The Regents may in their discretion accept as the equivalent for any part of the third and fourth requirement, evidence of five or more years' practice of medicine, provided that such substitution be specified in the license."

5. Evidence that applicant "has received the degree of bachelor or doctor of medicine from some registered medical school, or a diploma or license conferring full right to practise medicine in some foreign country" (Form 3 of original credentials.)

6. The candidate must pass examinations in anatomy, physiology and hygiene, chemistry, surgery, obstetrics, pathology and diagnosis, therapeutics, practice and materia medica. The questions "shall be the same for all candidates, except that in therapeutics, practice and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate and shall be in harmony with the tenets of that school as determined by its State Board of Medical Examiners."

Second exemption: "Applicants examined and licensed by other State examining boards registered by the Regents as maintaining standards not lower than those provided by this article, and applicants who matriculated in a New York State medical school before June 5, 1890, and who received the degree of M.D. from a registered medical school before August 1, 1895, may, without further examination, on payment of \$10 to the Regents, and on submitting such evidence as they may require, receive from them an indorsement of their licenses or diplomas, conferring all rights and privileges of a Regents' license issued after examination."

7. A fee of \$25 payable in advance.

DIPLOMAS OF LICENTIATE OF THE ROYAL COLLEGE OF PHYSICIANS OF LONDON AND MEMBERSHIP OF THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

Graduates of the Cornell University Medical College are admitted to the final examination for the diploma of Licentiate of the Royal College of Physicians of London and Membership of the Royal College of Surgeons of England, upon presenting proper certificates that certain conditions applicable to the foreign universities and colleges which are recognized by the examining board have been complied with.

Further information may be obtained from the Secretary of the Board (Mr. F. G. Hallett) at the Examination Hall, Victoria Embankment, London, W. C.

PRIZES.

The Harriet Crocker Alexander prizes, the first of \$150, the second of \$50, are awarded, the first to the student having the highest record, the second to the student having the next highest record in the Graduating Class.

The prizes were awarded this year as follows :

Frank Clark Yeomans, First Prize.

Gertrude Ward, Second Prize.

HOSPITAL APPOINTMENTS.

The students and graduates of the Cornell University Medical College are entitled to compete on equal terms with those of other colleges for positions on the resident staff of Bellevue Hospital and the other hospitals of the city.

Some of these hospitals are: The City, Harlem, Gouverneur, New York, St. Luke's, Roosevelt, Presbyterian, St. Vincent's, St. Francis', Mount Sinai, German, and Hudson Street hospitals, New York Eye and Ear Infirmary, and the hospitals in Brooklyn and Jersey City, Newark, Paterson etc.

The requirements, the times of examination, and the period of service differ. The details can be learned by application, written

or in person, to the superintendents or the secretaries of the medical boards of the various hospitals, or to the Secretary of the Cornell University Medical College.

CHARGES FOR INSTRUCTION.

<i>First Year.</i>		
Registration ¹	\$	5.00
Tuition		150.00
Laboratory fees		35.00
		<hr/>
		\$190.00
<i>Second Year.</i>		
Tuition		150.00
Laboratory fees		30.00
		<hr/>
		180.00
<i>Third Year.</i>		
Tuition		150.00
Laboratory fees		30.00
		<hr/>
		180.00
<i>Fourth Year.</i>		
Tuition		150.00
Laboratory fees		25.00
Graduation fees ²		25.00
		<hr/>
		200 00

Tickets must be taken out and paid for at the beginning of the session.

FEES FOR SPECIAL STUDENTS.

The Dissecting ticket may be taken out separately after registration.

Registration	\$	5.00
Dissection		15.00
Laboratory course in chemistry		20.00
Laboratory course in normal histology		20.00

¹ The registration fee is payable only once, on entrance.

² The graduation fee is payable on registering for graduation. The tuition fees for the first two years at Ithaca are identical with those of the same period in New York. All fees are payable in advance and no rebate will be made.

No remission of laboratory fees will be made because of previous instruction elsewhere in the subjects.

Laboratory course in pathology.....	\$ 20.00
Laboratory course in materia medica.....	20.00
Operative surgery on the cadaver, including ma- terial.....	25.00
Clinical pathology.....	20.00
Bacteriology	20.00
Special courses.....	25.00

SCHOOL OF PRACTICAL HYGIENE AND SANITARY SCIENCE.

Fees for lectures, visits, etc.....	\$25.00
Fees for the pathological laboratory courses....	25.00
Fees for the chemical laboratory courses.....	25.00

Fees must be paid according to the foregoing schedule by all matriculants, including those who have already received the degree of M.D.

SUMMER SCHOOL.

Cornell University will continue during the summer of 1900 the Summer School which has proved of so much advantage.

The courses will cover the period from May 15th to August 1st, and the instruction will be chiefly clinical, with laboratory work and the quizzes added.

The instruction has been especially arranged to economize time and furnish the greatest amount of varied clinical practice possible.

The subjects embrace clinical instruction in medicine, surgery, and the various specialties; laboratory courses and quizzes in anatomy, surgery, materia medica, therapeutics, medicine, obstetrics and gynæcology.

OUTLINE OF THE PLAN OF INSTRUCTION.

The courses in clinical medicine are given at various hospitals and dispensaries by the physicians on duty. Elementary physical diagnosis is provided for those who have completed their second year, and advanced work for third- and fourth-year students.

In surgery the dispensaries will furnish opportunities for the observance and treatment of minor surgical conditions and instructions in bandaging. Advanced students may enter the wards of some of the hospitals and be instructed by the attending physician or surgeon in diagnosis and history-taking.

Clinical courses in the diseases of children, genito-urinary and venereal diseases, dermatology, ophthalmology, otology, gynæcology, diseases of the nose and throat, nervous diseases and orthopædic surgery may be taken at a number of dispensaries.

A course in practical obstetrics is given at the Mothers' and Babies' Hospital.

Upon application a schedule will be furnished the student from which he can choose enough work to completely fill the day from nine in the morning until four in the afternoon in this clinical work. Some of the classes are limited in number, and it is therefore advisable that early application be made.

Laboratory courses are offered in chemistry, normal histology, gross and clinical pathology, autopsies, bacteriology and pharmacology.

In addition to these clinics and laboratory courses, there will be *recitation work* one hour a week in each of the following subjects: anatomy, surgery, materia medica and therapeutics, practice of medicine, obstetrics and gynæcology.

Students who have completed their first year only are advised to choose laboratory courses and recitation work. Students who have completed their first and second years are advised to omit all work in the specialties, and choose courses in physical diagnosis or minor surgery in some dispensary, supplemented by recitations in general medicine or general surgery, or both.

Students who have finished their third year are considered well enough advanced to profit by the courses in the specialties, but are advised to take in addition a course in general medicine.

Students who have completed their fourth year should take up systematically practical instruction in as many of the specialties as the schedule will permit.

While the instruction is intended primarily for the present

members of the Cornell University Medical College, it will be open to both graduates and undergraduates of other recognized medical schools.

Further details of the various courses, their duration, and the fees, can be obtained from the Secretary of the Medical College.

BOARD.

Arrangements are made by the Clerk so that each matriculant of the College will be furnished with lists of good boarding-places at a convenient distance from the College building, at the very low rate of \$5 to \$6 per week. Further information may be obtained from the Clerk, at his office in the College, or from the Secretary of the Intercollegiate Young Men's Christian Association, 129 Lexington Avenue.

SUGGESTION.

It would be to the advantage of students if they would register a few days in advance of the opening exercises, secure boarding-places and purchase books, so that their studies may not be interrupted in the beginning. The Clerk is in his office every day after September 1, from 10 A.M. to 2 P.M.

TEXT-BOOKS.

As a rule only the latest editions of text-books should be purchased.

Anatomy—Text-Book, Gerrish, \$6.50 ; Reference Works, Morris, \$6.00 ; Gray, \$5.60 ; Quain, \$25.20 ; Haynes, *Guide to Dissection*, \$.80 ; Treves, *Surgical Applied Anatomy*, \$1.60 ; Haynes, *Manual of Anatomy*, \$2.50.

Physiology—Kirke's *Hand-Book of Physiology*, fifteenth edition, Halleburton, 1899, \$3.00 ; Flint, \$4.80 ; Stewart, \$3.75 ; Foster, \$3.60 ; Landois.

Histology—Stohr, *Text-Book of Histology*, \$3.00 ; Schaefer, *Essentials of Histology*, \$3.00.

Bacteriology—Sternberg's *Manual of Bacteriology*, \$8.00 ; Muir and Ritchie, *Manual of Bacteriology*, \$3.25.

Chemistry—Witthaus, *Manual of Chemistry*, fifth edition, \$3.25 ; Witthaus, *Laboratory Course*, fourth edition, \$1.00 ; Ganot's *Physics*, \$4.00.

Medicine—Second year, Lockwood, \$2.50 ; third year, Musser, *Medical Diagnosis*, \$6.00 ; Thompson's *Practical Medicine* ; or for reference, Loomis-Thompson, *American System of Practical Medicine*, \$24.00.

Surgery—Tillman, 3 vols., \$15.00 ; *American Text-Book*, \$7.00 ; Parks, *Surgery*, 2 vols., \$9.00 ; Stimson, *Fractures and Dislocations*, \$5.00 ; Stimson, *Operative Surgery*, \$3.00 ; Dennis, *System of Surgery*, \$6.00 per volume ; Parks, *Surgery*, 1 vol. ed., \$6.00.

Genito-Urinary—White and Martin, \$6.00 ; Hyde and Montgomery, \$2.50 ; Keyes and Chetwood, \$2.75.

Obstetrics—Hirst's *Obstetrics*, \$5.00 ; Winckel, \$5.00 ; Dorland, \$2.50.

Gynæcology—Penrose, \$3.75 ; Dudley, \$5.00 ; Kelly, \$15.00.

Materia Medica and Therapeutics—White, *Materia Medica and Therapeutics*, \$3.00 ; Coleman, *Syllabus of Materia Medica*, \$1.00 ; Hare, *Practical Therapeutics*, \$4.00 ; Thompson, *Practical Dietetics*, \$5.00.

Pathology—Delafield and Prudden, *Pathological Anatomy and Histology*, \$5.00 ; Orth, *Pathological Diagnosis* (Trans. of Sydenham Society) ; Ziegler, *General Pathology*, \$5.00.

Dermatology—J. Nevins Hyde, \$4.50 ; Jackson, \$2.50.

Ophthalmology—Noyes, \$5.00 ; De Schweinitz, \$4.00 ; Swanzy, \$3.00 ; Jackson, \$3.50 ; Suter, \$1.50.

Otology—Bacon and Blake on the Ear, \$2.00 ; Politzer, \$—Macewen, \$—

Nervous Diseases—Dana, \$3.50 ; Gower, \$8.00 ; Dercum, \$6.00.

Diseases of Children—*Medical Diseases of Infancy and Childhood*, Williams, \$2.50 ; *An American Text-Book of the Diseases of Children*, Starr, \$7.00.

Goulds, *Student's Medical Dictionary*, \$3.25.

Dissecting Cases—\$2.00 to \$5.00.

Text-books, etc., may be obtained from the Clerk at the College.

FIRST-YEAR CLASS—1900-1901

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9	A. Histology B. Chemistry C. Physiology	Physiology Lecture Prof. FLINT (until Jan. 1)	A. Physiology B. Histology C. Anat. Dem. (until Jan. 1)	Physiology Lecture Prof. FLINT	A. Histology B. Anat. Dem. (until Jan. 1) C.	A. Anat. Dem. (until Jan. 1) B. Physiology C. Histology
10	A. Anatomy B. Chemistry C.	A. B. Anatomy. C. Chemistry	A. Chemistry B. Physiology C. Anatomy	A. Anatomy B. Physiology C. Chemistry	A. Physiology B. Anatomy C. Chemistry	A. Chemistry B. Physiology C. Anatomy
11	A. B. C.	A. B. Anat. Dem. C.	A. B. Histology. C.	A. B. Anat. Dem. C.	Anatomy Lecture Prof. WOOLSEY	A. Anat. Dem. B. Histology C.
12						
1	Histology Laboratory	Embryology $\frac{1}{2}$ class Oct. 9 to Nov. 13	<i>Dissection</i>	<i>Dissection</i>	Histology Laboratory	<i>Dissection</i> ($\frac{1}{2}$ class) Chemical Laboratory ($\frac{1}{2}$ class)
2	Histology Laboratory	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>	Histology Laboratory	<i>Dissection</i> ($\frac{1}{2}$ class) Chemical Laboratory ($\frac{1}{2}$ class)
3	Physics Lecture Prof. WITTHAUS	Chemical Laboratory ($\frac{1}{2}$ class, 3-30) <i>Dissection</i> ($\frac{1}{2}$ class)	<i>Dissection</i> ($\frac{1}{2}$ class) Chemical Laboratory ($\frac{1}{2}$ class, 3-30)	Chemical Laboratory ($\frac{1}{2}$ class, 3-30) <i>Dissection</i> ($\frac{1}{2}$ class)	Physics Lecture Prof. WITTHAUS	<i>Dissection</i>
4	<i>Dissection</i>	Chemical Laboratory ($\frac{1}{2}$ class, 4-30) <i>Dissection</i> ($\frac{1}{2}$ class)	<i>Dissection</i> ($\frac{1}{2}$ class) Chemical Laboratory ($\frac{1}{2}$ class, 4-30)	Chemical Laboratory ($\frac{1}{2}$ class, 4-30) <i>Dissection</i> ($\frac{1}{2}$ class)	<i>Dissection</i>	<i>Dissection</i>
5	<i>Dissection</i>	Chemical Laboratory ($\frac{1}{2}$ class, 5-30) <i>Dissection</i> ($\frac{1}{2}$ class)	<i>Dissection</i> ($\frac{1}{2}$ class) Chemical Laboratory ($\frac{1}{2}$ class, 5-30)	Chemical Laboratory ($\frac{1}{2}$ class, 5-30) <i>Dissection</i> ($\frac{1}{2}$ class)	<i>Dissection</i>	<i>Dissection</i>

SECOND-YEAR CLASS—1900-1901

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9	Physiology Lecture Prof. FLINT (Oct.-Dec.)	A. Anatomy B. Physiology C. Chemistry Prof. WOOLSEY	Physiology Lecture Prof. FLINT	B. Chemistry C. Anatomy A. Physiology (to Jan. 1)	C. Physiology A. Obstetrics B. Anatomy	A. Obstetrics B. Chemistry C. Physiology
10	A. Physiology B. Medicine C. Surgery	Anatomy Lecture Prof. WOOLSEY	Anatomy Lecture Prof. WOOLSEY	Anatomy Lecture Prof. WOOLSEY	Anatomy Dem. Lecture Prof. HAYNES	B. Physiology C. Obstetrics A. Obstetrics
11	A. Surgery B. Anat. Dem. C. Medicine	* Physical Diagnosis	A. Anat. Dem. B. Surgery. C. Surgery.	* Physical Diagnosis	A. Surgery B. Anat. Dem. C. Anat. Dem.	* Physical Diagnosis
12						
1	Phys. Chem. Lab'y	Materia Medica ($\frac{1}{2}$ class) Bacteriology ($\frac{1}{2}$ class)	Histology (Oct.-Jan.) Laboratory <i>Dissection</i>	Materia Medica ($\frac{1}{2}$ class) Bacteriology ($\frac{1}{2}$ class)	Phys. Chem. Lab'y	Bacteriology ($\frac{1}{2}$ class)
2	Phys. Chem. Lab'y	Materia Medica ($\frac{1}{2}$ class) Bacteriology ($\frac{1}{2}$ class)	Histology Laboratory (Oct.-Jan.) <i>Dissection</i>	Materia Medica ($\frac{1}{2}$ class) Bacteriology ($\frac{1}{2}$ class)	Phys. Chem. Lab'y	Bacteriology ($\frac{1}{2}$ class)
3	Pathology Lecture (Oct.-Nov.) Prof. EWING <i>Dissection</i>	Pathology Lecture (Oct.-Nov.) Prof. EWING <i>Dissection</i>	Pathology (Oct.-Nov.) Prof. EWING <i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>
4	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>
5	<i>Dissection</i>	Chemistry Lecture Prof. WITTHAUS	Chemistry Lecture Prof. WITTHAUS	<i>Dissection</i>	<i>Dissection</i>	<i>Dissection</i>

* Section work.

THIRD-YEAR CLASS—1900-1901

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9	A. Surgery B. Medicine C. Materia Medica	A. Materia Medica B. Medicine C. Surgery	A. Surgery B. Materia Medica C. Medicine	A. Medicine B. Surgery C. Materia Medica	B. Medicine C. Surgery A. Materia Medica	A. Surgery B. Materia Medica C. Medicine
10	Pathological Lab'y Prof. EWING	Gross Pathology ($\frac{1}{3}$ class)	Pathological Lab'y Prof. EWING	Clinical Pathology ($\frac{1}{3}$ class) Gross Pathology ($\frac{1}{3}$ class)	Pathological Lab'y Prof. EWING	Clinical Pathology ($\frac{1}{3}$ class) Gross Pathology ($\frac{1}{3}$ class)
11	Pathological Lab'y Prof. EWING	Gross Pathology ($\frac{1}{3}$ class)	Pathological Lab'y Prof. EWING	Clinical Pathology ($\frac{1}{3}$ class) Gross Pathology ($\frac{1}{3}$ class)	Pathological Lab'y Prof. EWING	Clinical Pathology ($\frac{1}{3}$ class) Gross Pathology ($\frac{1}{3}$ class)
12						
1	Section Work	Section Work	Section Work	Section Work	Section Work	Section Work
2	Therapeutics Lecture Prof. LOOMIS	A. Obstetrics C. Pathology	Surgery Clinic Prof. STIMSON	Pediatrics Clinic Prof. WINTERS	A. Pathology B. Obstetrics	
3	Obstetrics and Gynecology Prof. POLK	Medicine Clinic Prof. THOMPSON	Surgery Clinic (Oct. 10-Dec.) Prof. DENNIS Genito-Urinary Clinic (Jan.-Apr.) Prof. ALEXANDER	Surgery Clinic Profs. STIMSON, WOOLSEY, GWYER	Therapeutics Clinic Prof. LOOMIS	
4	Medicine Lecture (Oct.-Dec.) Prof. THOMPSON * Toxicology Lecture (Dec.-April) Prof. WITTHAUS	Obstetrics Clinic Prof. EDGAR		Medicine Lecture (Oct. 4-Dec. 6) Prof. THOMPSON Therapeutics Lecture (Jan.-Apr.) Prof. LOOMIS	Neurology Lecture (Oct. 5-Nov. 10) Prof. DANA Neurology Clinic (Nov. 23-May 3) Prof. DANA	
5	Surgery Lecture (Oct.-Dec.) Prof. STIMSON Section Work (Feb.-Mar.)	Obstetrics Clinic Prof. EDGAR	Obstetrics Lecture Prof. EDGAR	Surgery Lecture Prof. STIMSON (Oct. 1-Dec. 7)	Surgery Lecture (Oct. 5-Dec. 7) Prof. STIMSON	

* 18 Lectures.

FOURTH-YEAR CLASS—1900-1901

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9	Oct.-Nov. Physiology Lecture (Special senses) Prof. FLINT Nov.-Apr. A. Chemistry Dr. RIGGS B. Physiology Dr. IVES	A. Therapeutics Dr. SHELBY B. Surgery Prof. BOLTON	Oct.-Nov. Physiology Lectures (Special senses) Prof. FLINT Nov.-Apr. A. Physiology Dr. IVES B. Chemistry Dr. RIGGS	A. Obstetrics and Gynecology Dr. HAMLEN B. Pathology Dr. HAMLEN	A. Pathology Dr. NORRIS B. Obstetrics and Gynecology Dr. HAMLEN	A. Anatomy Dr. STONE B. Medicine Prof. CONNER
10	A. Surgery Prof. BOLTON B. Therapeutics Dr. SHELBY	Section Work	A. Medicine Prof. CONNER B. Anatomy Dr. STONE	Section Work		Section Work
11	Section Work	Section Work	Section Work	Section Work	Section Work	Section Work
12						
1	Section Work	Section Work	Section Work	Oct.-Dec. Mental Diseases Lecture Prof. HAMLTON Jan.-Apr. Orthopedics Clinic Prof. SHAFFER	Section Work	
2	Section Work	Section Work	Surgery Clinic Prof. STIMSON	Pediatrics Clinic Prof. WINTERS	Section Work	Section Work
3	Obstetrics and Gynecology Clinic Prof. FOLK Bellevue Hosp.	Medicine Clinic Prof. THOMPSON	Oct.-Dec. Surgery Clinic Prof. DENNIS Jan.-Apr. Genito-Urinary Clinic Prof. ALEXANDER	Surgery Clinic Prof. STIMSON, WOOLSEY, GWYER	Therapeutics Lecture Prof. LOOMIS	Section Work
4	Oct.-Nov. Otolaryngology Lecture Prof. EACON Jan.-Mar. Laryngology Lecture Prof. KNIGHT	Obstetrics Clinic Prof. EDGAR	Oct.-Jan. Therapeutics Lecture Prof. LOOMIS	Oct.-Dec. Ophthalmol. Lecture Prof. BULL Jan.-Apr. Therapeutics Lecture Prof. LOOMIS	Oct.-Dec. Medicine Lecture Prof. THOMPSON Jan.-Apr. Neurology Clinic Prof. DANA	
5	Oct.-Nov. Surgery Lecture Prof. STIMSON Jan.-Mar. Section Work	Obstetrics Clinics Prof. EDGAR	Obstetrics Lecture Prof. EDGAR	Oct.-Dec. Surgery Lecture Prof. STIMSON Jan.-Apr. Hygiene Lecture Dr. WILLIAMS	Oct.-Dec. Surgery Lecture Prof. STIMSON	

MATRICULANTS IN NEW YORK.

Abel, Samuel.....	New York City
Adler, Marion Samuel.....	New York City
Altschul, Jehuda Hillel.....	New York City
Ambos, Carl Ludwig, Ph.G.....	New York City
Amster, Julius Louis.....	New York City
Asserson, Mary Alice.....	Brooklyn, N. Y.
Atwater, Henry Harrison, Jr.....	Brooklyn, N. Y.
Backus, Harold Simeon.....	Andover, Conn.
Bailey, Percival Dee.....	New York City
Bailey, Viola Jane.....	Carolina, R. I.
Baldwin, Jane North.....	Saranac Lake, N. Y.
Baldwin, Janette.....	Bethel, Conn.
Banker, Ernest Ensign.....	Ft. Edward, N. Y.
Barnes, Ida Bertha.....	New York City
Bartlett, Robert Lander, M.D., D.M.D.....	New York City
Bassin, John Nicholas.....	New York City
Beck, Ehrich Carl.....	New York City
Beckel, Melville Jerome.....	New York City
Becket, George Crocket.....	New York City
Behring, Joshua Aaron.....	New York City
Benton, Julian Juriah.....	Oakland, Cal.
Bernstein, Abraham.....	Binghampton, N. Y.
Bernstein, Israel Isaac.....	New York City
Best, Jean Isabel.....	Washington, Pa.
Boettiger, Carl.....	L. I. City, N. Y.
Bradford, Stella Stevens, B.A.....	Montclair, N. J.
Brecht, Frederick William, Ph.G.....	Brooklyn, N. Y.
Brewster, Margaret Powell.....	New York City
Britton, John.....	New York City
Brodman, Henry.....	New York City

Brown, Mary Hess.....	Columbus, O.
Brown, Christopher William.....	Brooklyn, N. Y.
Brunor, Emile, Ph.G., Ph.D.....	New York City
Buck, Guerdon Conde, B.S.....	Platteville, Wis.
Bunnell, George Lincoln, Ph.B.....	Bridgeport, Conn.
Burns, Geoffrey Chas. Henry.....	City Island, N. Y.
Butterworth, Mary Edna.....	Morristown, N. J.
Callahan, Denis George, A.B.....	Brooklyn, N. Y.
Cameron, Irving Gourmotte.....	Brooklyn, N. Y.
Cantle, William Henry.....	Norwich, Conn.
Chasins, Charles Louis.....	New York City
Clark, Coryell.....	Nichols, N. Y.
Cohen, Frances, A.B.....	New York City
Coolidge, Emelyn Lincoln.....	Boston, Mass.
Corrigan, George Francis, M.D.....	New York City
Costigan, Leo Hubert.....	New York City
Davidson, Louis Leopold.....	New York City
de la Motte, Anna Christesen.....	Brooklyn, N. Y.
Dennis, Helen, B.A.....	Newark, N. J.
Divine, Alice.....	Ellenville, N. Y.
Dolan, Paul, A.B.....	Brooklyn, N. Y.
Dosh, Louis Philippe.....	New York City
Dunning, Emily, B.S.....	New York City
Druskin, Samuel Jerome, B.S.....	New York City
Edlich, Theodore Julius, Ph.G.....	New York City
Ehrlich, Simon.....	New York City
Eaton, Alvin Richard, Jr.....	Elizabeth, N. J.
Edwards, Franklyn Ellsworth, M.D.....	New York City
Ehlers, Edmund Armeneius.....	New York City
Epstein, Sigmund.....	New York City
Evans, Newton Gurdon, B.S.....	Battle Creek, N. Y.
Farrar, Lilian Keturah Pond, A.B.....	Newtown Centre, Mass.
Farrell, Leo Francis.....	Pawtucket, R. I.
Fincke, Harry Starke, Ph. G.....	L. I. City, N. Y.
Finley, Caroline Sandford.....	New York City
Fischer, Henry John, Ph.G.....	New York City

Fisher, Archie Max.....	Spencer, N. Y.
FitzGerald, Aaron Boylan.....	Newark, N. J.
Fleming, Mark L.....	Summit, N. J.
Flynn, Frederick Laurence.....	New York City
Frankel, Julius.....	New York City
Freedman, Louis.....	New York City
Fried, Herman.....	New York City
Frye, Carl.....	New York City
Geddes, Susan Baker.....	Newark, N. J.
Gettinger, Joseph Hermann.....	New York City
Gillies, Charles Holmes, M.D.....	Nyack, N. Y.
Gingold, David.....	New York City
Ginzburg, Isidor.....	New York City
Glasgow, Maud.....	New York City
Glazebrook, Francis Henry.....	Elizabeth, N. J.
Glucksman, George.....	New York City
Good, George.....	Jersey City, N. J.
Gorton, James Treat, B.S.....	Yonkers, N. Y.
Greene, James Sonnet.....	New York City
Green, Arthur Randolph.....	New York City
Greenberg, Augustus Abraham.....	New York City
Gregory, Alice.....	New York City
Grund, Marie, A.B.....	New York City
Gundacker, Henry John, A.B.....	New York City
Gutman, Joseph.....	New York City
Hammer, William Jacob.....	Elizabeth, N. J.
Hamill, John Dunlap.....	New York City
Hand, Edward.....	Elizabeth, N. J.
Heimbecker, Winifred.....	New York City
Henning, Walter Hannibal.....	New York City
Hess, Ralph Jones, B.S.....	Salamanca, N. Y.
Hertz, Julius Jacob.....	New York City
Heuser, Gerhard William.....	Brooklyn, N. Y.
Hicks, Shirley Nathaniel Combs, B.S....	Rockville Centre, N. Y.
Hildreth, Edward Raymond, A.B.....	Bridgehampton, N. Y.
Hilkowich, Abe Maurice.....	New York City

Hirsch, Henry.....	New York City
Hitchcock, Ethel Olivia Hunter.....	New York City
Hoerle, Horace Poinier.....	Ridgewood, N. J.
Holt, Corliss Mason.....	Fishkill-on-the-Hudson, N. Y.
Horowicz, Bruno.....	New York City
Hughes, John Howard.....	Jersey City, N. J.
Isaacs, Julius.....	Brooklyn, N. Y.
Jacknowitz, Morris Arthur.....	New York City
Janson, Christian William.....	Brooklyn, N. Y.
Johnson, Dwight Fenn.....	Wolcott, N. Y.
Joslin, Mary Suviah.....	New York City.
Joyce, Leo Harold.....	Bath Beach, N. Y.
Kahn, Robert Johnston.....	Inwood, N. Y.
Kaplan, David Michael.....	New York City
Kern, James Valentine.....	New York City
Kilbane, Edward Francis.....	New York City
Kingston, Augustus Thomas, B.A.....	New York City
Klemann, George Francis.....	New York City
Kleinbaum, Edward.....	New York City
Knaus, Charles William.....	New York City
Koehler, Leopold Jacob.....	New York City
Kommel, Louis Moses.....	New York City
Landsman, Arthur Armin, Ph.G.....	New York City
Lawrance, Elliott Wagstaff.....	Rochester, N. Y.
Levy, Abraham Aaron.....	New York City
Lewin, Samuel Aaron.....	New York City
Lewitt, Abraham.....	New York City
Licht, Louis Frederick, Ph.G.....	Gundeschofer, Germany
Lippmann, Thomas Charles, Ph.G.....	Sag Harbor, N. Y.
Livingston, Elizabeth Handford.....	Brooklyn, N. Y.
Lubman, Max.....	New York City
Lysaght, Bella Bernadette.....	Brooklyn, N. Y.
McCague, David John.....	New York City
McDonald, Robert Francis.....	New York City
McLean, John Howell, Jr., A.B., M.D.....	Fort Worth, Texas
McMenamin, Thomas Daniel.....	Bath, N. Y.

MacMillan, Mary, A.B.....	New York City
McMillan, Katherine, M.D.....	Durham Centre, N. B.
MacLeod, Douglas Murdock.....	Valley Field, P. E. I.
Magill, William Henry, Ph.B.....	Providence, R. I.
Malisoff, Abraham.....	New York City
Mandel, Louis Jerome.....	New York City
Manisof, Joseph.....	New York City
Martin, James Francis, A.B.....	New York City
Maxson, Cullen B.....	Jersey City, N. J.
Mayer, Ethel, A.B.....	New York City
Meacham, Leslie James.....	New York City
Merrill, Henry Putnam, Jr.....	Portland, Me.
Milbank, Samuel.....	New York City
Miltimore, Dean, B.S.....	Catskill, N. Y.
Mills, Eugene Frederick.....	Brooklyn, N. Y.
Mislig, Michael, Ph.G.....	New York City
Moses, Chester Davis, E. E.....	Cortland, N. Y.
Moskowitz, Abraham.....	Brooklyn, N. Y.
Mulholland, Joseph Augustus, A.B.....	New York City
Nalitsky, David Isaac.....	Bayonne, N. J.
Needham, George G., A.M., A.B., M.D., Ph.G..	New York City
Newman, Grace.....	Brooklyn, N. Y.
Norton, Edward Sylvester.....	Clifton, N. J.
O'Flaherty, Ellen Pembroke.....	Hartford, Conn.
O'Grady, Eliza.....	Eastport, Me.
Osborne, Charles Lester.....	Jersey City, N. J.
Pearson, Henry, B.S.....	Tuscaloosa, Ala.
Pfeiffer, William.....	Brooklyn, N. Y.
Pierson, Farrand Baker, A.B.....	Brooklyn, N. Y.
Rachlin, Nathan Hale.....	Brooklyn, N. Y.
Raphaelson, Samuel Joshua, B.S.....	New York City
Rea, Charles Lee.....	Carrollton, Me.
Rissmeier, Charles Frederick.....	New York City
Ritter, Isidor.....	New York City
Romansky, Benjamin.....	New York City
Roof, Stephen White.....	New York City

Rosenberg, Aaron Joshua.....	New York City
Rosenberg, Herman.....	New York City
Rosenbloom, Augustus Abraham.....	Fulton, N. Y.
Ross, Cecil Metcalfe.....	Hackensack, N. J.
Rothe, Harry Emory, Jr.....	Newark, N. J.
Roth, Herman.....	New York City
Ruch, Valentine, Jr.....	Englewood, N. J.
Scadron, Samuel Jerome.....	New York City
Schaefer, Louis.....	Brooklyn, N. Y.
Schirmer, Emilie Carolina.....	Brooklyn, N. Y.
Schlesinger, Helen.....	Brookline, Mass.
Schmidt, Frederick George Edward..	Herzberg a. Harz, Germany
Schneidenbach, Arthur Jacques Melchor.....	New York City
Schoenfeld, Morris.....	New York City
Schwartzman, Samuel.....	New York City
Seymour, Nan Gilbert, A.B.....	New York City
Shanley, Wm. Francis, A.B.....	Rockville, Conn.
Shattuck, Hobart Parker.....	Brooklyn, N. Y.
Shears, Edith Estella.....	New York City
Sheitlis, Benjamin.....	New York City
Sheitlis, David.....	New York City
Skernewitch, Abraham Marcus.....	New York City
Showers, Harriet Douglas Whetton.....	South Oil City, Pa.
Silk, Chas.....	New York City
Simonds, Mary Edith.....	Yonkers, N. Y.
Smith, Jennie Beck.....	Mauch Chunk, Pa.
Smith, William Hereford, B.S.....	Danville, Ky.
Southerland, William Henry.....	Canandaigua, N. Y.
Spalding, Henry Jesse.....	Hoboken, N. J.
Strachstein, Abraham.....	New York City
Stiefel, Isaac.....	New York City
Stigner, Per.....	New York City
Streep, Isaac.....	New York City
Sullivan, Michael Joseph.....	Pittsfield, Mass.
Sweet, Elizabeth.....	Albany, N. Y.
Tarbell, Roscoe Conklin.....	Syracuse, N. Y.

Telfair, John Hamilton.....	Port Richmond, N. Y.
Thorne, Victor Corse, LL.B., Ph.B	New York City
Thornton, Mary Frances Deraismus.....	New York City
Thornton, Jessie Maud.....	Hillsville, Va.
Tidey, Lilley Victoria.....	Belleville, N. J.
Tirman, Samuel.....	New York City
Tonero, Louis Vincent.....	Newark, N. J.
Underhill, Elizabeth Colden.....	Poughkeepsie, N. Y.
Vogt, Walter Eugene.....	Brooklyn, N. Y.
von Roeder, Ludwig.....	Yorktown, Texas
von Sholly, Anna Irene, A.B.....	Flushing, N. Y.
Wagner, Otto.....	New York City
Walker, William Henry, Jr.....	New York City
Ward, Gertrude Potter.....	Bloomfield, N. J.
Warner, William Henry Alonzo.....	Newark, N. J.
Waterman, Paul Harrison, B.A.....	Westfield, Mass.
Weighart, Benjamin.....	Buffalo, N. Y.
Weinberg, Joseph Elias.....	New York City
Weiss, Julius, B.S.....	New York City
Wheelwright, Joseph Storer, A.B.....	Bangor, Me.
Wilkes, James Wallace.....	New York City
Wing, Persons Walton.....	New York City
Winick, Samuel.....	New York City
Wise, Arthur Heston.....	New York City
Woelfle, Henry Ewald.....	Roseland, N. J.
Wohl, Albert Arthur.....	New York City
Wolfert, Ludwig Paul Otto.....	New York City
Wolff, Harold Alfred.....	Brooklyn, N. Y.
Wyatt, Thomas Hall.....	Brooklyn, N. Y.
Yeomans, Frank Clark, A.B.....	New York City
Zeiner, Eugene Jerome, Ph.G.....	New York City
Ziporkes, William Jerome.....	New York City
Zipser, Benjamin.....	New York City
Zucker, Morris, Ph.G.....	New York City

MATRICULANTS AT ITHACA.

Bailey, Harold Capron.....	Buffalo, N. Y.
Basch, Samuel Behrend.....	Kingston, N. Y.
Bauder, George Washington.....	Middletown, N. Y.
Beckwith, Mary Winifred.....	Ithaca, N. Y.
Bedford, Alleta Langdon.....	Brooklyn, N. Y.
Bliss, Theodore.....	Troy, N. Y.
Bloomington, Gertrude.....	Alabama, N. Y.
Bowen, Willis Elliot, Ph.G.....	Churchville, N. Y.
Brown, Ralph Minthorne.....	Ithaca, N. Y.
Bugbee, Alice Elmina Gates.....	Gloversville, N. Y.
Bullard, Marguerite Jane.....	Providence, R. I.
Carter, Helen Louise.....	Newark, N. J.
Canfield, Amos.....	Van Etten, N. Y.
Chapin, Charles Willard.....	Palmyra, N. Y.
Claypole, Agnes Mary, M.S., Ph.D.....	Akron, O.
Claypole, Edith Jane, Ph.B., M.S.....	Akron, O.
Cleghorn, Guy Forsythe.....	Green Island, N. Y.
Cohen, Rose, M.E., B.E.....	New York City.
Cole, Thomas Folwell.....	Ovid, N. Y.
Coryell, Clarence Cattin.....	Ithaca, N. Y.
Cunniffe, Edward Rutherford.....	Port Jervis, N. Y.
Demarest, Ruth.....	Nyack, N. Y.
Doughty, Phebe Van Vlack, A.B., Ph.B....	Matteawan, N. J.
Dyer, Frank Merritt.....	Binghamton, N. Y.
Everett, Frederick.....	Potsdam, N. Y.
Faust, John Wesley.....	Poughkeepsie, N. Y.
Ferry, Perry Lawson.....	Preble, Ind.
Fish, Emmett Grant.....	Mecklenberg, N. Y.
Fisher, Carl De Witt.....	Johnstown, Pa.
Folley, Etta.....	Newark, N. J.
Gifford, Herbert Clyde.....	Oriskany, N. Y.
Gillfillan, Elizabeth Riddle.....	Washington, D.C.
Goehle, Otto Louis.....	Buffalo, N. Y.

Gould, Clark Sumner.....	Walton, N. Y.
Hoover, Walter Wells.....	Wellsville, Pa.
Huntoon, Frank McElroy.....	Port Byron, N. J.
Jagle, Elizabeth Carlisle.....	Brooklyn, N. Y.
Johnston, Harry Isaac.....	Ovid, N. Y.
Keeler, Lynn Huntington.....	Moravia, N. Y.
Kingsbury, Benjamin Freeman, A.B., M.S., Ph.D..	Defiance, O.
Knipe, Norman Leslie.....	Norristown, Pa.
Kuyle, Thompson Galbraith.....	Ithaca, N. Y.
Losee, Mace Anderson.....	Livingstonville, N. Y.
Ludwig, Robert Francis.....	Chicopee, Mass.
McClary, Samuel, 3d.....	Wilmington, Del.
McDonald, Robert Stevenson, Ph.B.....	London, Ont.
Mathewson, Edward Simon.....	Cortland, N. Y.
Mix, Charles Melville, A.B.....	Friendship, N. Y.
Mohan, John Francis.....	Allegheny, Pa.
Mood, Inez Leonore.....	Newfield, N. Y.
Moody, Mary Grace.....	New Haven, Conn.
Mount, Louis Burgh.....	Troy, N. Y.
Munson, Arley Isabel.....	Brooklyn, N. Y.
Myers, Burton Dorr, Ph.D.....	Attica, O.
Nelson, Staley Lyman.....	Hinsdale, N. Y.
Niles, Walter Lindsay.....	Lebanon, N. Y.
Ormsby, Margaret Louise.....	Norwich, Conn.
Page, Sophie Ellen.....	Bethany, Pa.
Palmer, William Hailes.....	Mechanicsville, N. Y.
Parker, Jason Samuel.....	Lyons, N. Y.
Pierson, John Corbin.....	New York City
Pounds, Thomas Canfield.....	Breesport, N. Y.
Quigley, James Knight.....	Trumannsburch, N. Y.
Reed, Thurlow Weed.....	Hornellsville, N. Y.
Searing, Benjamin Haff.....	Brooklyn, N. Y.
Sears, Keith.....	Searsburg, N. Y.
Stevenson, Willis Mack.....	S. W. Oswego, N. Y.
Stone, Charles Lucius.....	Troy, N. Y.
Storck, Edward Hugo.....	Buffalo, N. Y.

Stroud, Bert Brenette, B.S., D.Sc.....	Ithaca, N. Y.
Swaze, Clayton Isaac.....	Lake Ridge, N. Y.
Thompson, Carrie Wilber.....	Highland Falls, N. Y.
Todd, Leona Estella.....	Rochester, N. Y.
Tompkins, George Nelson.....	Sing Sing, N. Y.
Treat, Lillian Amelia.....	Auburn, N. Y.
Van Pelt, Harvey Loren.....	Ithaca, N. Y.
Vose, Roy Madeville.....	Ithaca, N. Y.
Wanzer, Esther May.....	Ithaca, N. Y.
Weber, Edward William.....	Mt. Vernon, N. Y.
Wilson, Willets, Ph.G.....	Ithaca, N. Y.
Woodward, Mabel Hadley.....	Rochester, N. Y.
Wright, Floyd Robins.....	Ithaca, N. Y.

GRADUATES.

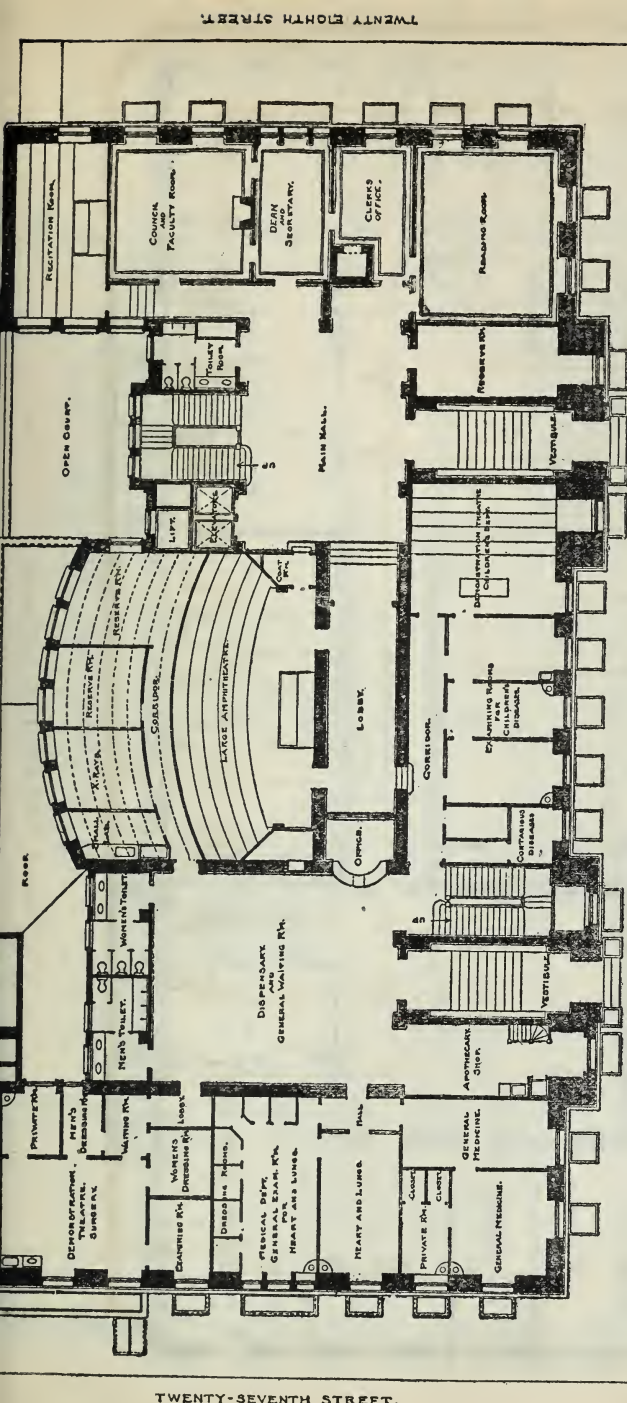
JUNE 6, 1900.

Carl Ludwig Ambos,	Jacob Gutman,
Viola Jane Bailey,	James Treat Gorton,
Jane North Baldwin,	David Gingold,
Mary Hess Brown,	Francis Henry Glazebrook,
George Lincoln Bunnell,	Isidor Ginzburg,
George Crocket Becket,	Ralph Jones Hess,
Guerdon Conde Buck,	Edward Hand,
Frances Cohen,	Shirley Nathaniel Combes
Emelyn Lincoln Coolidge,	Hicks,
Coryell Clark,	David Michael Kaplan,
Allie Divine,	Abraham Lewitt,
Helen Dennis,	Arthur Armin Landsman,
Anna Christesen De La Motte,	Max Lubman,
Cornelius Abram DeMund,	Louis Jerome Mandel,
Newton Guerdon Evans,	Abraham Malisoff,
Julius Frankel,	Joseph Augustus Mulholland,
Lilian Keturah Pond Farrar,	Henry Putnam Merrill, Jr.,
Henry John Fischer,	Joseph Manisof,
Marie Grund,	Thomas Daniel McMenamin,

Charles Lee Rea,
 Aaron Joshua Rosenberg,
 Nathan Hale Rachlin,
 Edith Estella Shears,
 Harriet Douglas Whetton
 Showers,
 Emilie Caroline Schirmer,
 Michael Joseph Sullivan,
 William Henry Sutherland,
 Frederick George Edward
 Schmidt,
 Charles Silk,

William Herbert Smith,
 Henry Jesse Spalding,
 Elizabeth Colden Underhill,
 Ludwig Robert Von Roeder,
 Ludwig Paul Otto Woelfert,
 Samuel Winick,
 Gertrude Ward,
 Joseph Storer Wheelwright,
 James Wallace Wilkes,
 Joseph Elias Weinberg,
 Frank Clark Yeomans,

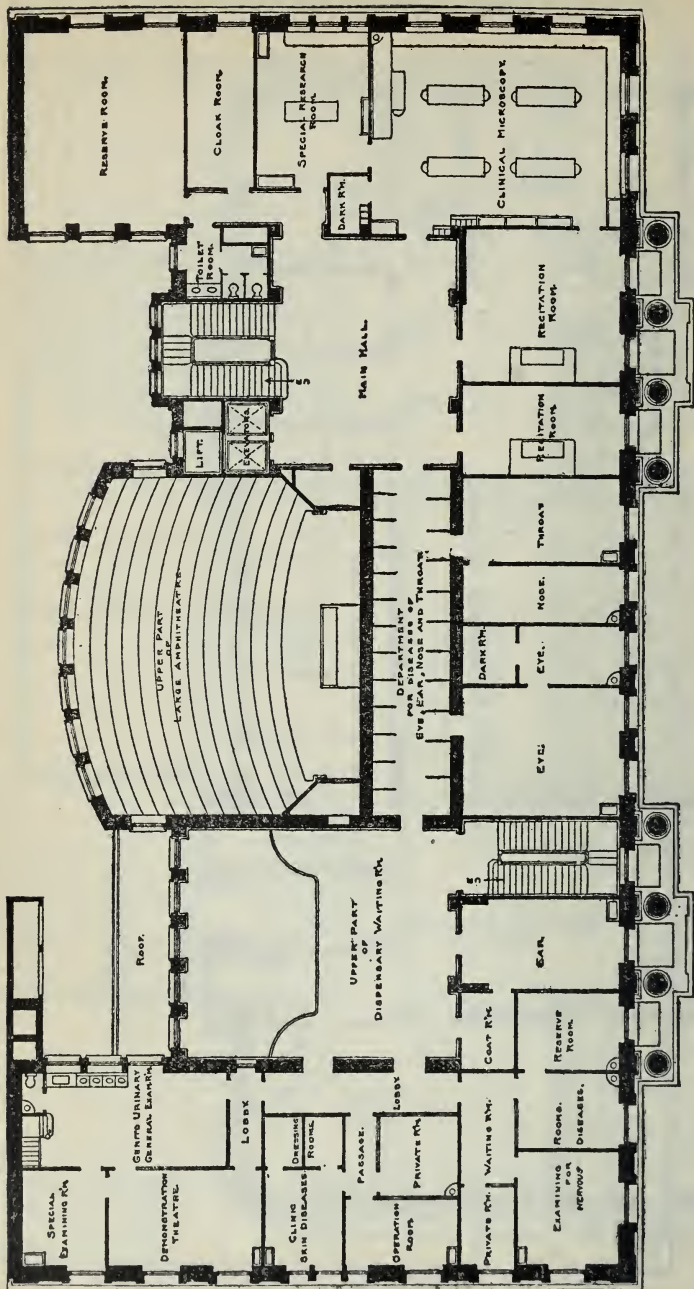
NOTE. Thirty-five hospital appointments were obtained in competitive examinations by the members of this class. Four resigned and thirty-one are now serving.

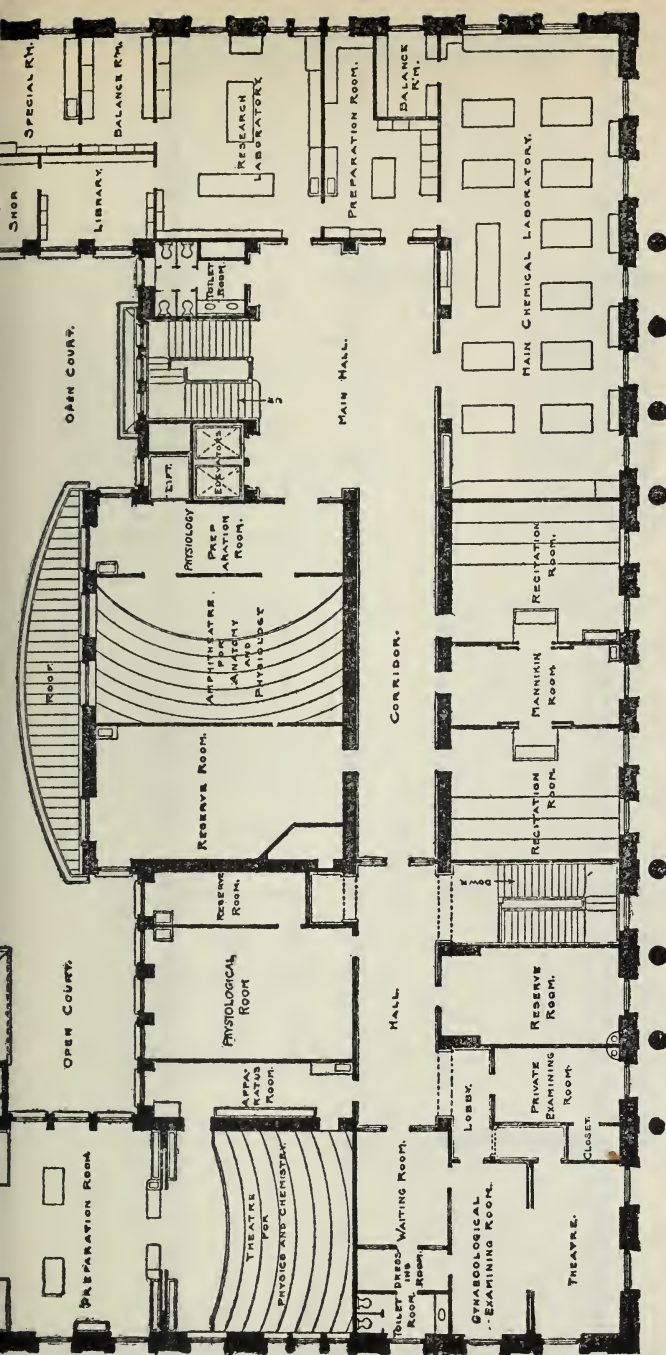


TWENTY-SEVENTH STREET.

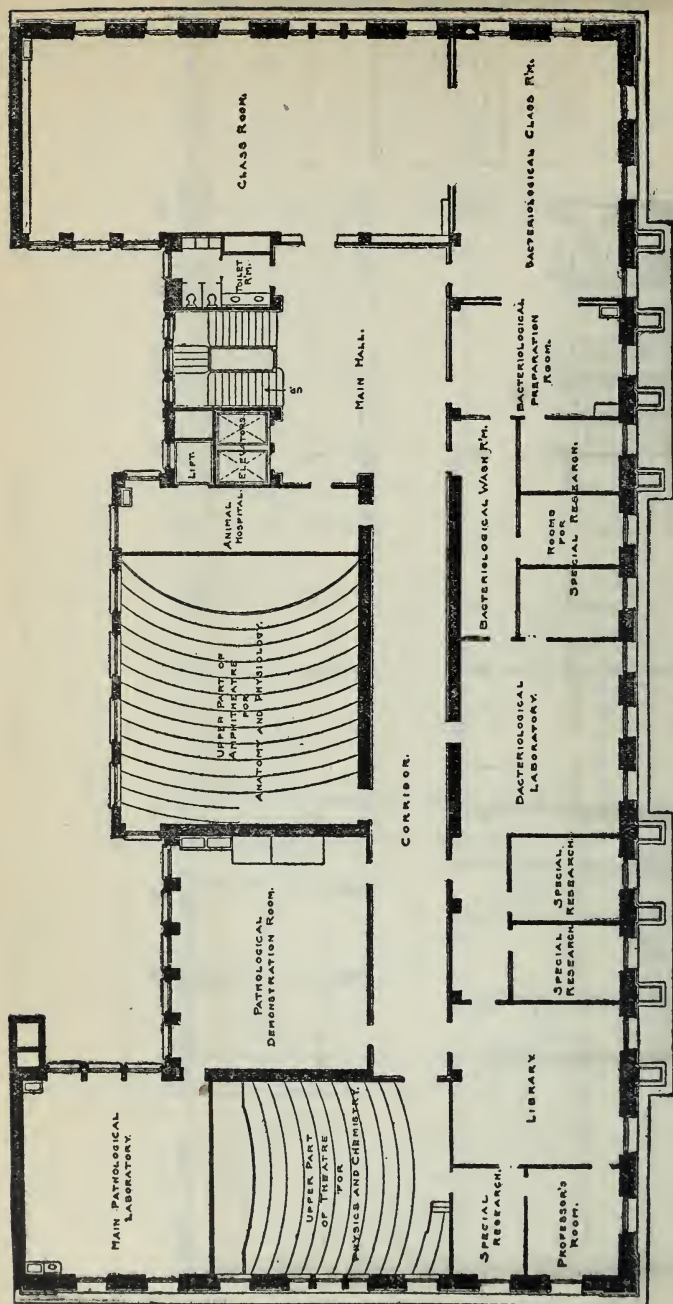
FIRST AVENUE.

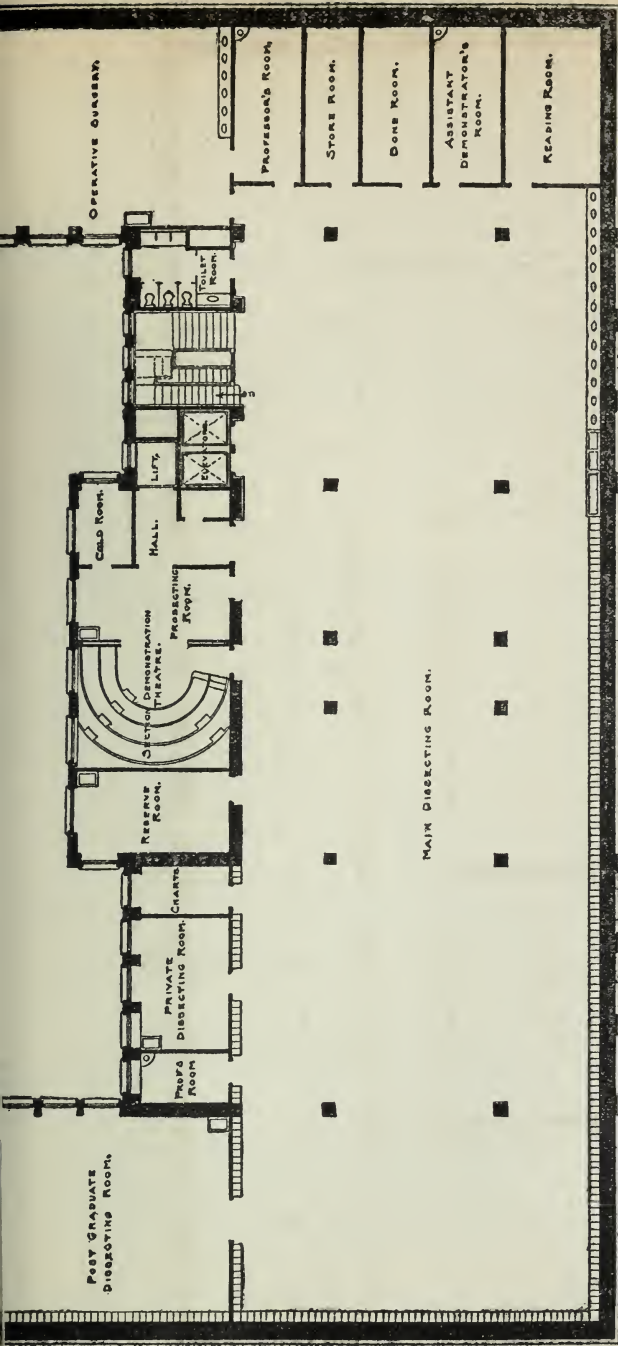
PLAN OF FIRST FLOOR





PLAN OF THIRD FLOOR.





PLAN OF FIFTH FLOOR.



CORNELL UNIVERSITY

COMPRISES THE FOLLOWING DEPARTMENTS

The GRADUATE DEPARTMENT (Degrees A. M., Ph. D., etc.)

The ACADEMIC DEPARTMENT, OR DEPARTMENT OF ARTS AND SCIENCES (Degree A. B.)

The COLLEGE OF LAW (Degree LL. B.)

The MEDICAL COLLEGE* (Degree M. D.)

The NEW YORK STATE VETERINARY COLLEGE (Degree D. V. M.)

The COLLEGE OF AGRICULTURE (Degree B. S. A.)

The NEW YORK STATE COLLEGE OF FORESTRY (Degree B. S. F.)

The COLLEGE OF ARCHITECTURE (Degree B. Arch.)

The COLLEGE OF CIVIL ENGINEERING (Degree C. E.)

The SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND MECHANICAL ARTS (Degree M. E.)

For copies of the University Register and for additional information, apply to

REGISTRAR, CORNELL UNIVERSITY,

Ithaca, N. Y.

* The full four-year course of the CORNELL UNIVERSITY MEDICAL COLLEGE is given in the City of New York, but the first half of it—the work of the first and second years—is also given at Ithaca, where it may be taken by men students (undergraduates), and where alone it can be taken by women students (for whom a home is provided in the Sage College for Women). Both men and women students must take the last two years of the course in New York City. Special announcements of the Medical College and information of every kind regarding it will be furnished on application to

SECRETARY, Cornell University Medical College,

First Avenue and 28th Street, New York City.

C
1 m 2 me
001/02

CORNELL UNIVERSITY MEDICAL COLLEGE

IN NEW YORK CITY

UNIVERSITY OF ILLINOIS LIBRARY

ANNOUNCEMENT

1901-1902

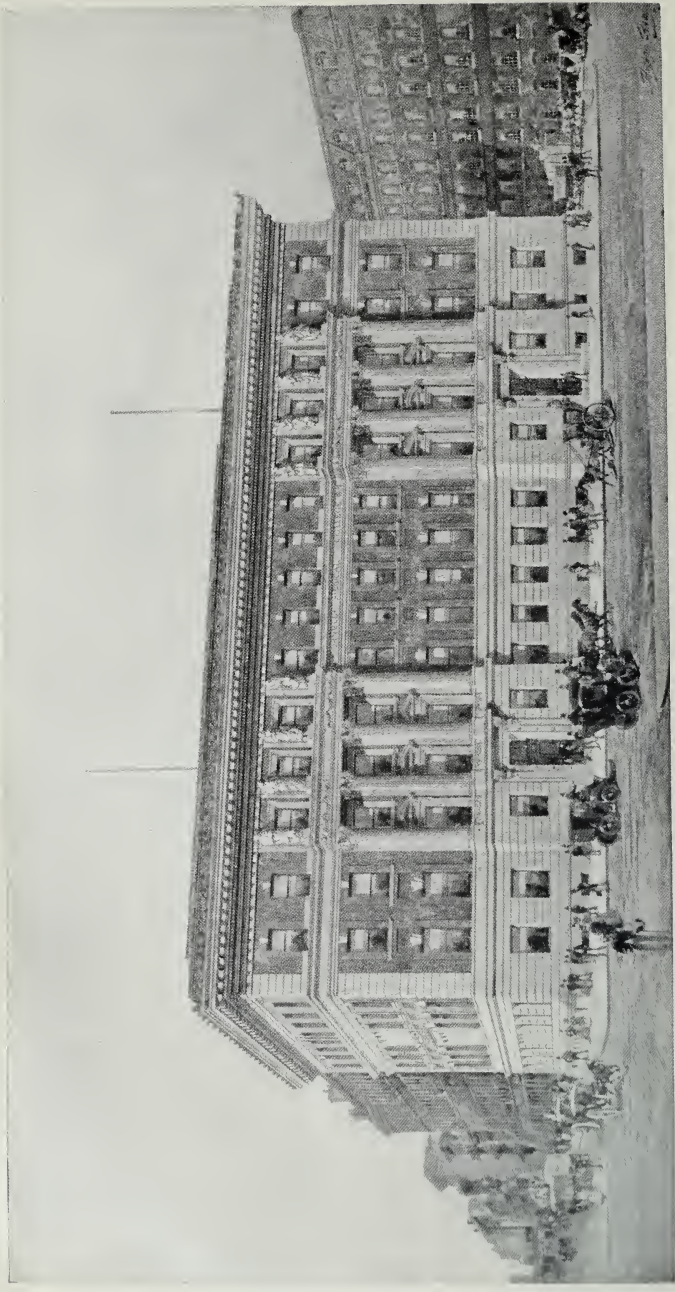
FOR INSTRUCTION AT ITHACA

SEE PAGE 85

APR 26 1911

NEW YORK CITY

PUBLISHED BY THE UNIVERSITY



CORNELL UNIVERSITY MEDICAL COLLEGE

CORNELL UNIVERSITY
MEDICAL COLLEGE

IN NEW YORK CITY

ANNOUNCEMENT

1901-1902

NEW YORK CITY
PUBLISHED BY THE UNIVERSITY

CONTENTS.

	PAGE
Trustees of Cornell University	4
Medical College Council	6
Calendar for 1901-1902	6
Faculty of Medicine	7
General Statement	19
College Building	19 and 119
Loomis Laboratory	19
Clinical Facilities	20
Requirements for Admission	23
Registration and Matriculation	31
Admission of Students from other accredited Medical Colleges	31
Scholarships	33
Fees for Instruction	34
Fees for Special Students	35
General Statement of the Plan of Instruction	35
Detailed Statement of the Plan of Instruction	42
Anatomy	42
Physiology	44
Chemistry, Physics, and Toxicology	45
Materia Medica and Therapeutics	47
Medicine and Clinical Pathology	49
Surgery	54
Obstetrics	56
Gynæcology	58
Histology	60
Pathology—Post-mortems	61
Bacteriology	62
Special Departments of Medicine and Surgery	63
Diseases of Children	63

CORNELL UNIVERSITY MEDICAL COLLEGE.

	PAGE
Genito-Urinary Diseases	64
Diseases of the Nervous System	66
Mental Diseases	67
Dermatology	67
Laryngology and Rhinology	68
Ophthalmology	68
Otology	69
Orthopædic Surgery	69
Hygiene and Sanitary Science	70
Summary of the Plan of Instruction	71
Examinations	75
Requirements for Advancement in Course	75
Requirements for Graduation	78
Requirements for License to Practise Medicine in the State of New York	79
Admission to Examination of the Royal College of Phy- sicians and Royal College of Surgeons	81
Prizes	82
Hospital Appointments	82
Summer School	82
Board	83
Text-Books	83

COURSES OF INSTRUCTION AT ITHACA.

Instruction at Ithaca	85
Calendar	85
General Statement	85
Departments, Methods, and Facilities	87
Anatomy	87
Microscopy, Histology, Embryology	89
Neurology	91
Comparative Physiology	92

CORNELL UNIVERSITY MEDICAL COLLEGE.

	PAGE
Materia Medica	92
Physics	93
Chemistry	94
Bacteriology	96
Surgery	97
Medicine	97
Obstetrics	98
Schedule and Summarized Statement	98
Combined Course in Arts and Medicine	103
Requirements for Admission	105
Residence and Registration	105
Scholarships	33
Examinations	105
Advancement from Second to Third Year	106
Medical Society	106
Tuition and Fees	107
Board and Rooms	107
Matriculants	108
College Building	119

BOARD OF TRUSTEES.

ALONZO B. CORNELL	} <i>Ex-Officio</i>	Ithaca.
The PRESIDENT of the University		Ithaca.
His Excellency the GOVERNOR of New York		Albany.
His Honor the LIEUTENANT-GOVERNOR		Albany.
The SPEAKER of the Assembly		Albany.
The SUPERINTENDENT of Public Instruction		Albany.
The COMMISSIONER of Agriculture		Albany.
The PRESIDENT of the State Agricultural Soc.		Brooklyn.
The LIBRARIAN of the Cornell Library		Ithaca.

CORNELL UNIVERSITY MEDICAL COLLEGE.

*ANDREW CARNEGIE	(B.) ¹	Pittsburg, Pa.
*JOSEPH C. HENDRIX	(B.)	Brooklyn.
*DEFOREST VAN VLEET, B.S. . . .	(A.) ²	Ithaca.
*CHARLES GRAY WAGNER, B.S., M.D. . .	(A.)	Binghamton.
*HORACE WHITE, M.A.	(B.)	New York.
*GEORGE R. WILLIAMS, LL.B. . . .	(B.)	Ithaca.
SAMUEL D. HALLIDAY, A.B.	(B.)	Ithaca.
HENRY MANNING SAGE, A.B.	(B.)	Menands.
ROBERT H. TREMAN, B.M.E.	(B.)	Ithaca.
GEORGE B. TURNER, B.S.	(A.)	Auburn.
MYNDERSE VAN CLEEF, B.S.	(B.)	Ithaca.
FRANK SHERMAN WASHBURN, B.C.E. . .	(A.)	Nashville, Tenn.
ALFRED C. BARNES	(B.)	Brooklyn.
FRANKLIN C. CORNELL	(B.)	Ithaca.
CHARLES S. FRANCIS, B.S.	(A.)	Troy.
JARED TREMAN NEWMAN, Ph.B., LL.B. .	(A.)	Ithaca.
WILLIAM H. SAGE, A.B.	(B.)	Albany.
ROGER B. WILLIAMS, A.M.	(B.)	Ithaca.
WALTER CRAIG KERR, B.M.E.	(B.)	New York.
C. SIDNEY SHEPARD, A.B., LL.B. . . .	(B.)	New Haven.
HIRAM W. SIBLEY, Ph.D., LL.B. . . .	(B.)	Rochester.
RUTH PUTNAM, B.Lit.	(A.)	New York.
HENRY WOODWARD SACKETT, A.B. . . .	(A.)	New York.
STEWART L. WOODFORD, LL.D.	(A.)	New York.
ROBERT B. ADAM	(B.)	Buffalo.
WILLARD BEAHAN, B.C.E.	(A.)	Evanston, Ill.
HENRY RUBENS ICKELHEIMER, B.L. . .	(B.)	New York.
LELAND OSSIAN HOWARD, M.S.	(A.)	Wash., D. C.
HENRY B. LORD	(B.)	Ithaca.
ANDREW D. WHITE, LL.D., L.H.D. . . .	(B.)	Ithaca.

EMMONS L. WILLIAMS, *Secretary*.

* Term of office (5 years) expires in 1901, the next group of six in 1902, etc., etc.

(1) B., elected by Board; (2) A., elected by Alumni.

CORNELL UNIVERSITY MEDICAL COLLEGE.

MEDICAL COLLEGE COUNCIL.

For the purpose of making recommendations to the Board of Trustees in regard to the business administration of the Medical College, there has been established a Medical College Council, consisting of the President of the University (who is *ex-officio* chairman) ; the Dean of the Medical Faculty ; three Trustees elected by the Board ; and two Professors elected by the Faculty. The Council at present is constituted as follows :

JACOB GOULD SCHURMAN, President of the University
and Chairman *ex-officio* of the Council.

WILLIAM M. POLK, Dean of the Medical Faculty.

HORACE WHITE,
A. C. BARNES, }
H. R. ICKELHEIMER, } of the Board of Trustees.

L. A. STIMSON,
R. A. WITTHAUS, } of the Faculty.

J. THORN WILLSON, *Secretary*.

CALENDAR

1901-1902

October 1, Tuesday—College opens.

November 5, Tuesday—Election Day. Legal holiday.

November 28, Thursday, to 9 A.M., December 2, Monday—Thanksgiving recess.

December 21, Saturday, to 9 A.M., Thursday, January 2, 1902—Christmas recess.

1902

February 22, Saturday—Washington's Birthday. Legal holiday.

March 28, Good Friday.

May 5, Monday—Examinations for undergraduates begin.

May 19, Monday—Final examinations for graduation begin.

June 4, Wednesday—Commencement.

For Calendar of Instruction in Ithaca, see page 85.

FACULTY OF MEDICINE.

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D.,

President.

Ithaca, N. Y.

WILLIAM M. POLK, M.D., LL.D.,

Dean and Professor of Gynecology and Obstetrics, Gynecologist to Bellevue Hospital and Obstetrician to Emergency Lying-in Hospital.

LEWIS A. STIMSON, M.D., LL.D.,

Professor of Surgery, Consulting Surgeon to Bellevue Hospital and Surgeon to New York and Hudson Street Hospitals.

RUDOLPH A. WITTHAUS, M.D.,

Professor of Chemistry, Physics and Toxicology.

W. GILMAN THOMPSON, M.D.,

Professor of Medicine, Physician to the Presbyterian and Bellevue Hospitals.

GEORGE WOOLSEY, M.D.,

Professor of Anatomy and Clinical Surgery, Surgeon to Bellevue Hospital, Associate Surgeon to the Presbyterian Hospital.

HENRY P. LOOMIS, M.D.,

Professor of Materia Medica, Therapeutics and Clinical Medicine, Physician to the New York and Bellevue Hospitals.

J. CLIFTON EDGAR, M.D.,

Professor of Obstetrics and Clinical Midwifery, Attending Surgeon to Maternity Hospital.

AUSTIN FLINT, M.D., LL.D.,

Professor of Physiology, Consulting Physician to Bellevue Hospital, President of the Consulting Medical Board of the Manhattan State Hospital for the Insane.

FREDERIC S. DENNIS, M.D., F.R.C.S.,

Professor of Clinical Surgery, Surgeon to Bellevue and St. Vincent's Hospitals.

FREDERIC W. GWYER, M.D.,

Professor of Operative and Clinical Surgery, Surgeon to Bellevue Hospital.

IRVING S. HAYNES, M.D.,

Professor of Practical Anatomy, Surgeon to the Harlem Hospital.

JAMES EWING, M.D.,

Professor of Pathology.

CLINICAL PROFESSORS.

JOSEPH E. WINTERS, M.D.,

Professor of Diseases of Children, Physician to Willard Parker Hospital.

CHARLES STEDMAN BULL, M.D.,

Professor of Ophthalmology, Surgeon to New York Eye and Ear Infirmary, Consulting Ophthalmic Surgeon to St. Luke's and Presbyterian Hospitals and St. Mary's Hospital for Children.

NEWTON M. SHAFFER, M.D.,

Professor of Orthopædic Surgery, Surgeon-in-Chief of the New York State Hospital for the Care of Crippled and Deformed Children, Consulting Orthopædic Surgeon to St. Luke's and the Presbyterian Hospital, Consulting Surgeon to the New York Infirmary for Women and Children.

GORHAM BACON, M.D.,

Professor of Otology, Aural Surgeon to New York Eye and Ear Infirmary.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System, Physician to Bellevue Hospital, Neurologist to the Montefiore Hospital.

SAMUEL ALEXANDER, M.D.,

Professor of Diseases of the Genito-Urinary System, Surgeon to Bellevue Hospital.

GEORGE THOMSON ELLIOT, M.D.,

Professor of Dermatology, Assistant Physician and Pathologist to the Skin and Cancer Hospital, Consulting Dermatologist to St. Luke's, Columbus, and New York Lying-in Hospitals.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,

Professor of Mental Diseases, Consulting Physician, Manhattan State Hospital for the Insane.

CHARLES M. KNIGHT, M.D.,

Professor of Laryngology, Surgeon to the Manhattan Eye and Ear Hospital, Throat Department.

ALEXANDER LAMBERT, M.D.,

Professor of Clinical Medicine, Instructor in Physical Diagnosis, Physician to Bellevue Hospital.

FRANCIS W. MURRAY, M.D.,

Professor of Clinical Surgery, Surgeon to St. Luke's and New York Hospitals.

CORNELL UNIVERSITY MEDICAL COLLEGE.

CHARLES E. NAMMACK, M.D.,

Professor of Clinical Medicine, Physician to Bellevue Hospital.

FREDERICK KAMMERER, M.D.,

Professor of Clinical Surgery, Surgeon to the German and St. Francis' Hospitals.

PERCIVAL R. BOLTON, M.D.,

Professor of Clinical Surgery, Instructor in Surgery, Surgeon to the New York Hospital, Assistant Surgeon to Bellevue Hospital.

WARREN COLEMAN, M.D.,

Professor of Clinical Medicine, Instructor in Materia Medica, Therapeutics, and in Clinical Medicine, Assistant Attending Physician to Bellevue Hospital.

LEWIS A. CONNER, M.D.,

Professor of Clinical Medicine, Instructor in Medicine, Attending Physician to the Hudson Street Hospital, Assistant Pathologist to the New York Hospital.

ALEXANDER B. JOHNSON, M.D.,

Professor of Clinical Surgery, Surgeon to the New York Hospital.

IVIN SICKELS, M.D.,

Assistant Professor of Chemistry and Physics.

JOHN A. HARTWELL, M.D.,

Assistant Professor of Physiology and Instructor in Physiology.

INSTRUCTORS.

BERTRAM H. BUXTON, M.D.,

Instructor in Bacteriology.

DEVER S. BYARD, M.D.,

Instructor in Medicine, Physician to City Almshouse.

CHARLES N. BANCKER CAMAC, M.D.,

Instructor in Clinical Pathology, Physician to City Hospital.

WALTER ARTHUR BASTEDO, Ph.G., M.D.,

Instructor in Pharmacology.

JOHN W. COE, M.D.,

Assistant Instructor in Clinical Pathology.

JOHN F. CONNORS, M.D.,

Assistant Demonstrator of Anatomy, Surgeon to City Almshouse.

CORNELL UNIVERSITY MEDICAL COLLEGE.

JEREMIAH S. FERGUSON, M.D.,

Instructor in Histology.

FRANK S. FIELDER, M.D.,

Assistant Demonstrator of Anatomy.

GEORGE D. HAMLEN, M.D.,

Instructor in Obstetrics and Gynæcology.

JOHN A. HARTWELL, M.D.,

Instructor in Physiology, Assistant Demonstrator of Anatomy, Surgeon to the Colored Hospital.

THOMAS WOOD HASTINGS, M.D.,

Assistant Instructor in Clinical Pathology.

JOHN HOWLAND, M.D.,

Assistant Instructor in Bacteriology.

JAMES C. JOHNSTON, M.D.,

Instructor in Pathology and Dermatology.

HENRY T. LEE, M.D.,

Assistant Instructor in Pathology.

GUY D. LOMBARD, M.D.,

Assistant Instructor in Histology.

CLARENCE A. MCWILLIAMS, M.D.,

Assistant Demonstrator of Anatomy.

CARROLL D. PARTRIDGE, B.S.,

Assistant in Chemistry.

HENRY S. PASCAL, M.D.,

Assistant Instructor in Histology.

LOUIS W. RIGGS, Ph.D.,

Instructor in Chemistry and Physics.

JOHN ROGERS, JR., M.D.,

Instructor in Surgery, Surgeon to the Gouverneur Hospital.

EDMUND PENDLETON SHELBY, M.D.,

Instructor in Pharmacology and Therapeutics.

MONTGOMERY H. SICARD, M.D.,

Instructor in Physical Diagnosis.

OTTO H. SCHULTZE, M.D.,

Instructor in Gross Pathology.

CORNELL UNIVERSITY MEDICAL COLLEGE.

MAX G. SCHLAPP, M.D.,

Instructor in the Histology and Pathology of the Nervous System, Physician to City Almshouse.

LETCHWORTH SMITH, M.D.,

Assistant Instructor in Bacteriology.

WILLIAM F. STONE, M.D.,

Instructor in Anatomy and Assistant Demonstrator of Anatomy.

ALFRED E. THAYER, M.D.,

Assistant Instructor in Gross Pathology.

BENJAMIN T. TILTON, M.D.,

Instructor in Surgery and Operative Surgery, Surgeon to the Colored Hospital.

GEORGE GRAY WARD, JR., M.D.,

Instructor in Obstetrics.

WILLIAM R. WILLIAMS, M.D.,

Lecturer on Hygiene.

CHARLES G. L. WOLF, M.D.,

Instructor in Physiological Chemistry.

CLINICAL INSTRUCTORS.

JOHN ASPELL, M.D.,

Clinical Instructor in Gynæcology, Visiting Gynecologist to St. Vincent's Hospital.

CHARLES C. BARROWS, M.D.,

Clinical Instructor in Gynæcology, Assistant Gynecologist to Bellevue Hospital.

COLMAN WARD CUTLER, M.D.,

Clinical Instructor in Ophthalmology, Assistant Surgeon to the New York Eye Infirmary, Attending Ophthalmic Surgeon to St. Luke's Hospital.

WALLER A. DUNCKLE, M.D.,

Clinical Instructor in Diseases of Children.

MARTIN J. ECHEVERRIA, M.D.,

Clinical Instructor in Diseases of Genito-Urinary System.

CORNELL UNIVERSITY MEDICAL COLLEGE.

- P. HENRY FITZHUGH, M.D.,
Clinical Instructor in Orthopædic Surgery, Assistant Surgeon, New York State Hospital for the Care of Crippled and Deformed Children.
- JOSEPH FRAENKEL, M.D.,
Clinical Instructor in Diseases of the Nervous System, Attending Physician to City Hospital.
- WILLIAM TRAVIS GIBB, M.D.,
Clinical Instructor in Gynecology.
- CHARLES L. GIBSON, M.D.,
Clinical Instructor in the Diseases of the Genito-Urinary System.
- WILLIAM HIRSCH, M.D.,
Clinical Instructor in Mental Diseases.
- ARCHIBALD E. ISAACS, M.D.,
Clinical Instructor in Surgery.
- THURSTON G. LUSK, M.D.,
Clinical Instructor in Dermatology, Dermatologist to the Out-Patient Department of Roosevelt and Bellevue Hospitals.
- JAMES E. NEWCOMB, M.D.,
Clinical Instructor in Laryngology.
- ROBERT G. REESE, M.D.,
Clinical Instructor in Ophthalmology, Assistant Surgeon to the New York Eye and Ear Infirmary, Ophthalmic Surgeon to the Workhouse and Almshouse Hospitals.
- GUSTAVE SEELIGMANN, M.D.,
Clinical Instructor in Obstetrics.
- WILLIAM SHANNON, M.D.,
Clinical Instructor in Diseases of Children.
- FRANKLIN M. STEPHENS, M.D.,
Clinical Instructor in Otology, Assistant Surgeon to the New York Eye and Ear Infirmary.
- GEORGE P. SHEARS, M.D.,
Clinical Instructor in Obstetrics.
- NEWTON B. WALLER, M.D.,
Clinical Instructor in Diseases of the Genito-Urinary System.

CORNELL UNIVERSITY MEDICAL COLLEGE.

HENRY H. WHITEHOUSE, M.D.,

Clinical Instructor in Dermatology, Clinical Assistant to the New York Skin and Cancer Hospital, Dermatologist to Demilt Dispensary.

JOHN MCGAW WOODBURY, M.D., M.R.C.S.,

Instructor in Orthopædic Surgery, Assistant Attending Surgeon Out-Patient Department, Roosevelt Hospital, Attending Surgeon Out-Patient Department, Bellevue Hospital.

CLINICAL ASSISTANTS.

ROBERT STAUNTON ADAMS, M.D.,

Clinical Assistant in Diseases of Children, Attending Physician to Children's Class, Demilt Dispensary.

HENRY M. ARCHER, M.D.,

Clinical Assistant in Surgery.

RUSSELL BELLAMY, M.D.,

Clinical Assistant in Medicine and Therapeutics.

FRANK T. BURKE, M.D.,

Clinical Assistant in Laryngology.

EARLE CONNER, M.D.,

Clinical Assistant in Otology, Clinical Assistant to New York Eye and Ear Infirmary.

ROBERT M. DALEY, M.D.,

Clinical Assistant in Diseases of the Nervous System.

GEORGE SLOAN DIXON, M.D.,

Clinical Assistant in Otology, Assistant Pathologist to New York Eye and Ear Infirmary.

JOHN FREELAND, M.D.,

Clinical Assistant in Laryngology.

J. RAMSAY HUNT, M.D.,

Clinical Assistant in Diseases of the Nervous System.

LOUIS NEUMANN, M.D.,

Assistant in Physiology.

HENRY SCOTT, M.D.,

Clinical Assistant in Orthopædic Surgery, Assistant Surgeon to the New York State Hospital for the Care of Crippled and Deformed Children.

CORNELL UNIVERSITY MEDICAL COLLEGE.

FRANCIS E. SHINE, M.D.,

Clinical Assistant in Diseases of the Genito-Urinary System.

GEORGE DE FOREST SMITH, M.D.,

Clinical Assistant in Mental Diseases.

WILLIAM F. STONE, M.D.,

Clinical Assistant in Surgery.

HORACE S. STOKES, M.D.,

Clinical Assistant in Diseases of Children.

DISPENSARY STAFF.

Department of General Medicine (including Heart and Lungs).

CHARLES N. B. CAMAC, M.D.,

Attending Physician.

JOHN W. COE, M.D.,

Assistant Attending Physician.

MONTGOMERY H. SICARD, M.D.,

Assistant Attending Physician.

THEODORE B. BARRINGER, M.D.,

Assistant Attending Physician.

WILLIAM J. JONES, M.D.,

Assistant Attending Physician.

THOMAS W. HASTINGS, M.D.,

Assistant Attending Physician.

Department of Surgery.

WILLIAM F. STONE, M.D.,

Attending Surgeon.

GEORGE M. CREEVEY, M.D.,

Attending Surgeon.

GEORGE EUGENE DODGE, M.D.,

Assistant Attending Surgeon.

LEWIS G. COLE, M.D.,

Assistant Attending Surgeon.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Department of Obstetrics and Gynæcology.

GEORGE D. HAMLEN, M.D.,
Attending Physician.

GEORGE P. SHEARS, M.D.,
Attending Physician.

Department of Genito-Urinary Diseases.

MARTIN J. ECHEVERRIA, M.D.,
Attending Surgeon.

CHARLES L. GIBSON, M.D.,
Attending Surgeon.

NEWTON B. WALLER, M.D.,
Assistant Attending Surgeon.

FRANCIS E. SHINE, M.D.,
Assistant Attending Surgeon.

Department of Neurology.

JOSEPH FRAENKEL, M.D.,
Attending Physician.

ROBERT M. DALEY, M.D.,
Assistant Attending Physician.

J. RAMSAY HUNT, M.D.,
Assistant Attending Physician.

Department of Pediatrics.

WALTER A. DUNCKEL, M.D.,
Attending Physician.

WILLIAM SHANNON, M.D.,
Attending Physician.

ROBERT S. ADAMS, M.D.,
Assistant Attending Physician.

H. S. STOKES, M.D.,
Assistant Attending Physician.

Department of Dermatology.

JAMES C. JOHNSTON, M.D.,
Attending Surgeon.

CORNELL UNIVERSITY MEDICAL COLLEGE.

THURSTON G. LUSK, M.D.,

Attending Surgeon.

EDWARD PISKO, M.D.

Assistant Attending Surgeon.

Department of Otology.

FRANKLIN M. STEPHENS, M.D.,

Attending Surgeon.

GEORGE S. DIXON, M.D.,

Attending Surgeon.

Department of Laryngology.

JAMES E. NEWCOMB, M.D.,

Attending Surgeon.

JOHN FREELAND, M.D.,

Assistant Attending Surgeon.

FRANK T. BURKE, M.D.,

Assistant Attending Surgeon.

CHARLES MACK, M.D.,

Assistant Attending Surgeon.

Department of Orthopædics.

P. HENRY FITZHUGH, M.D.,

Attending Surgeon.

JOHN MCGAW WOODBURY, M.D.,

Attending Surgeon.

Department of Ophthalmology.

ROBERT G. REESE, M.D.,

Attending Surgeon.

COLMAN W. CUTLER, M.D.,

Attending Surgeon.

GEORGE H. BELL, M.D.,

Assistant Attending Surgeon.

JOHN J. ROGERS, JR., M.D.,

Secretary of the Faculty.

J. THORN WILLSON,

Clerk of the College.

First Avenue, 27th and 28th Streets.

STAFF OF INSTRUCTION AT ITHACA.

GEORGE CHAPMAN CALDWELL, B.S., Ph.D.,

Professor of General Chemistry and of Agricultural Chemistry.

BURT GREEN WILDER, B.S., M.D.,

Professor of Neurology, Vertebrate Zoölogy, and Physiology.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D.,

Professor of Physics.

SIMON HENRY GAGE, B.S.,

Professor of Microscopy, Histology, and Embryology.

VERANUS ALVA MOORE, B.S., M.D.,

Professor of Comparative Pathology and Bacteriology.

LOUIS MUNROE DENNIS, Ph.B., B.S.,

Professor of Inorganic and Analytical Chemistry.

JOSEPH ELLIS TREVOR, Ph.D.,

Professor of General Chemistry and Physical Chemistry.

WILLIAM RIDGELY ORNDORFF, A.B., Ph.D.,

Assistant Professor of Organic and Physiological Chemistry.

ERNEST GEORGE MERRITT, M.E.,

Assistant Professor of Physics.

PIERRE AUGUSTINE FISH, D.Sc., D.V.M.,

Assistant Professor of Comparative Physiology and Pharmacology.

BENJAMIN FREEMAN KINGSBURY, A.B., Ph.D.,

Assistant Professor of Microscopy, Histology, and Embryology.

ABRAM TUCKER KERR, B.S., M.D.,

Assistant Professor of Anatomy.

LUZERNE COVILLE, B.S., M.D.,

Lecturer on Surgery.

PAUL RICHARD BROWN, M.D.,

Lecturer on Medicine and Obstetrics.

THEODORE WHITTLESEY, A.B., Ph.D.,

Instructor in Chemistry.

CORNELL UNIVERSITY MEDICAL COLLEGE.

RAYMOND CLINTON REED, Ph.B.,

Instructor in Comparative Pathology and Bacteriology.

EMILE MONIN CHAMOT, B.S., Ph.D.,

Instructor in Microchemical and Sanitary and Toxicological Chemistry.

HENRY ROSE JESSEL, B.S., Ph.D.,

Instructor in Chemistry.

SAMUEL HOWARD BURNETT, A.B., M.S.,

Instructor in Pathology.

LAWRENCE HENDEE, M.D.,

Assistant Demonstrator of Anatomy.

ROBERT ORTON MOODY, B.S., M.D.,

Assistant Demonstrator of Anatomy.

AUGUSTUS GROTE POHLMAN, M.D.,

Assistant Demonstrator of Anatomy.

MORRIS ROGERS EBERSOLE, B.S.,

Assistant in Chemistry.

JOHN EDGAR TEEPLE, B.S.,

Assistant in Physiological Chemistry.

WALTER WELLS HOOVER,

Assistant in Physiology and Materia Medica.

BENJAMIN BERNARD TURNER, B.S., Ph.D.,

Assistant in Chemistry.

ROBERT FISCHER, B.S.,

Assistant in Chemistry.

ARTHUR RENWICK MIDDLETON, A.B.,

Assistant in Chemistry.

MARY JANE ROSS, A.M.,

Assistant in Microscopy, Histology, and Embryology.

CHARLES HERBERT BOXMEYER, A.B.,

Assistant in Microscopy, Histology, and Embryology.

GEORGE HOWARD BURROWS, B.S.,

Assistant in Chemistry.

ELLIOT SNELL HALL,

Assistant in Chemistry.

OTTO FRED HUNZIKER, B.S.A.,

Assistant in Bacteriology.

A. W. BAIRD, A.B.,

Assistant in Physiology.

O. P. JOHNSTON, A.B.,

Assistant in Physiology.

ABRAM T. KERR, M.D.,

Secretary of the Faculty at Ithaca.

GENERAL STATEMENT.

The Medical Department of Cornell University was established in 1898. This undertaking, which had been contemplated by the Trustees for several years, was made possible by the gift to the University of a commodious and fully equipped building designed for medical instruction, and by the bestowal of a sufficient "Endowment Fund" for the generous maintenance of a large and vigorous school for higher education in medicine.

The Main College Building comprises a Medical School and Dispensary, with principal entrance on First Avenue, opposite Bellevue Hospital, and occupies the entire block between Twenty-seventh and Twenty-eighth Streets on First Avenue, extending back 100 feet, thus affording an available space of nearly 20,000 feet on each floor. The building is designed in a severe style of Renaissance architecture, and is constructed of Indiana limestone and red brick.

The Loomis Laboratory (founded 1886) serves the purpose of undergraduate instruction, in connection with the laboratories in the College building, in such subjects as can best be taught in a laboratory, and it is also especially available to graduates in medicine who may desire to pursue further study or original research in the various departments of laboratory investigation.

The building is five stories in height, fire-proof, with concrete floors, thoroughly ventilated, and provided with an elevator, steam heat, gas, and an electric-light plant. It is lighted by windows on either side.

CORNELL UNIVERSITY MEDICAL COLLEGE.

The Metropolitan Street Railroad cars on Twenty-eighth and Twenty-ninth Streets and First Avenue connect with all the other lines of the company, by a system of transfers at Fourteenth, Twenty-third, Thirty-fourth, and Fifty-ninth Streets, and so put all the hospitals in the city within easy access of the College. Also a convenient station of the Manhattan Elevated Railroad is at Twenty-eighth Street and Third Avenue.

Clinical Facilities.—The Medical Department of Cornell University has been established in New York in order to secure those advantages for clinical instruction which are to be found only in large cities.

The College Dispensary.—In the portion of the College Building allotted to the Dispensary most ample provision has been made for the accommodation of the various clinical departments, of which there are eleven, viz. : General Surgery, General Medicine, including the diseases of the Heart and Lungs, Gynæcology and Obstetrics, Diseases of Children, of the Nervous System, of the Genito-Urinary System, of the Skin, Eye, Ear, Nose and Throat, and Orthopædic Surgery.

Each Department has been furnished with all the instruments and apparatus necessary for the examination and treatment of patients, and a number of small amphitheatres are placed in the Dispensary so that the clinical instruction provided by the curriculum can be carried on without interfering with their treatment.

Members of the Faculty of Cornell Medical College hold appointments in the hospitals and dispensaries of the city, and are enabled to utilize for teaching purposes the large quantity and variety of clinical material of ten of the great City Hospitals, viz. :

Bellevue Hospital—Twenty-sixth Street and East River.

This hospital has 900 beds, and receives 24,000 patients annually. In this building is an amphitheatre capable of seating 300 students, and also a number of small, newly built operating theatres, where section demonstrations in surgery and gynæcology are made before the class. Connected with the hospital is a hydropathic establishment

CORNELL UNIVERSITY MEDICAL COLLEGE.

where students are shown the practical applications of baths, douches, massage, etc.

The following clinics are held during the session :

Obstetrics and Gynecology — Monday, 2 P.M.

Professor POLK.

Medicine — Tuesday and Friday, 3 P.M.

Professors LOOMIS and THOMPSON.

Surgery — Wednesday and Thursday, 3 P.M.

Professors STIMSON, WOOLSEY, DENNIS, and GWYER.

Genito-Urinary — Wednesday, 3 P.M., for half the term.

Professor ALEXANDER.

Nervous Diseases — Friday, 4 P.M.

Professor DANA.

The Out-Patient Department of Bellevue Hospital treats over 50,000 patients annually. A large proportion of this clinical material is utilized for the purpose of section teaching by members of the Faculty who hold positions in the Dispensary.

City Hospital (formerly Charity Hospital) — Blackwell's Island, East River. To reach this institution the steamer should be taken at the foot of East Twenty-sixth Street.

This hospital has a capacity of 1,000 beds. It offers special advantages for the study of venereal and genito-urinary diseases.

New York Hospital — Fifteenth Street, between Fifth and Sixth Avenues.

This is one of the most thoroughly equipped hospitals in the city, and has connected with it a large Out-Patient Department.

Clinical instruction is given by Professors Stimson, Loomis, Murray, Bolton, and Johnson.

Presbyterian Hospital — Madison Avenue and Seventieth Street.

This is a large general hospital of 350 beds, and includes extensive and varied medical and surgical service. Clinical instruction is given by Professors Thompson and Woolsey.

Willard Parker and Reception Hospitals — Foot of East Sixteenth Street.

CORNELL UNIVERSITY MEDICAL COLLEGE.

These hospitals are in charge of the Board of Health, New York City, and offer unrivalled opportunities for the study of contagious diseases—such as diphtheria, scarlet fever, measles, smallpox, and typhus fever. They contain 200 beds.

Professor Winters gives bedside instruction to small sections of the fourth-year class in the former hospital.

New York Skin and Cancer Hospital — Nineteenth Street and Second Avenue.

This hospital affords accommodation for the treatment of a large number of patients afflicted with cancer and skin diseases. Section instruction in dermatology is conducted here by Professor Elliot and assistants.

St. Francis' Hospital — 609 Fifth Street.

A general hospital with a capacity of 230 beds. Section instruction here is under the charge of Professor Kammerer.

St. Vincent's Hospital — 195 West Eleventh Street.

This is a general hospital containing nearly 200 beds.

Section teaching and clinics are given here by Professor Dennis and Dr. Aspell.

New York Eye and Ear Infirmary — Second Avenue, corner Thirteenth Street.

This hospital is devoted to the treatment of eye, ear, and throat diseases.

Clinical instruction is given in this institution by Professors Bull and Bacon, aided by corps of assistants.

Manhattan Eye and Ear Hospital — 103 Park Avenue.

This is one of the largest institutions for the treatment of this class of diseases in the city. Professor Knight and his assistants give instruction in laryngology.

In addition to these hospitals, the teaching corps of the Medical Faculty is represented upon the visiting staffs of many other hospitals and dispensaries in the city, where Cornell students are invited to attend clinics. Among these are : The Maternity Hospital,



THE LOOMIS LABORATORY

Gouverneur Hospital, Harlem Hospital, Almshouse and Workhouse Hospital, Emergency Hospital, Randall's Island Hospital, Columbus Hospital, German Hospital.

REQUIREMENTS FOR ADMISSION.

The Medical Department of Cornell University is open to all who have a "medical-student certificate." The laws of New York State require of the prospective student of medicine a preliminary education equivalent to that obtainable in a four years' course in any of the public high schools recognized by the Regents as maintaining a satisfactory standard. Those who cannot present formal evidence of at least this amount of preliminary education must pass the examinations conducted by the State authorities at regular intervals throughout the year. The medical-student certificate thus earned by examination or by a high school, college, or university diploma must be filed with the secretary at the time of registration.

As the certificate can be earned with little or no knowledge of subjects which are essential preliminaries to the study of medicine, and which therefore it has been necessary to teach during the first year of the medical course, the Faculty has decided that, after the Session of 1901-02, the following named subjects, taken from the list given in the Regents' "Handbook No. 3, High School Department, Examinations," shall be included in the list of those needed to make up the 48 counts required by law.

The numerical credit allowed for each subject in the "Handbook" is as follows :

<i>Physics</i>	<i>4 counts</i>	<i>Algebra</i>	<i>4 counts</i>
<i>Chemistry</i>	<i>4 "</i>	<i>Plane Geometry</i>	<i>4 "</i>
<i>Advanced Arithmetic</i>	<i>2 "</i>	<i>Third-Year English</i>	<i>12 "</i>
<i>Elementary United States History and Civics</i>	<i>2 "</i>		
<i>Second-Year Latin, or Cæsar's Commentaries, first four books</i>	<i>8 "</i>		

CORNELL UNIVERSITY MEDICAL COLLEGE.

The total number of counts allowed by the Regents for successful examinations in these subjects is 40. The remaining 8 counts must be made up from any of the following named subject groups enumerated in the Regents' "Handbook": Science; Mathematics; Language and Literature; History and Social Science. The Faculty, however, recommend Second-Year French or Second-Year German, each of which has a value of 8 counts.

Candidates for admission to this College must therefore present, not only the Regents' Medical-Student Certificate, but the "pass cards," or the special "Cornell Medical-Student Certificate," granted by the Regents on application, to show that the certificate has been earned by examination on the subjects specified above.

Attention is called to the fact that the usual certificate of 48 counts obtained from promiscuous subjects will not be accepted.

The subject-matter covered in these requirements, which must be included in the Regents' certificate, is briefly summarized as follows:

Physics (4 counts) includes a knowledge of matter and force, dynamics of fluids, heat, electricity and magnetism, sound and light.

Chemistry (4 counts). Presentation of the practical laboratory note-book, in connection with the examination, may be required at the Regents' examination, which examination includes chemical nomenclature, the chemistry of air, oxygen, hydrogen, nitrogen and its compounds, the halogens, important metals and their compounds, phosphorus, and arsenic.

Advanced arithmetic (2 counts) includes standards of measurements, ratio and proportion, decimals, square and cube root, the metric system, arithmetical and geometrical progression.

Algebra (4 counts) includes quadratic equations.

Plane geometry (4 counts) includes the demonstration of simple original theorems.

Latin (that described in the "Handbook" as either Second-Year Latin or Cæsar's Commentaries is an 8-count subject) includes a knowledge of grammar and the ability to translate at sight simple

passages from any standard author or from the first four books of Cæsar's Commentaries.

English (that described in the "Handbook" as Third-Year English is a 12-count subject) includes a knowledge of grammar and composition, and a reasonable familiarity with the masterpieces of English or American literature.

Elementary United States History and Civics (2 counts) includes important historical dates, the character and purpose of the different wars, the purport of the Constitution, and the relations of the Federal and State governments.

The Second-Year French or German recommended by this Faculty (each 8-count subjects) includes a knowledge of grammar and ability to translate at sight simple passages from any standard author.

Applicants for admission who can present evidence of having successfully completed at least one full year's course of study in the collegiate department of any college or university registered by the Regents as maintaining a satisfactory standard, are assumed to have had a preliminary education approximately equivalent to that described above, and may obtain a Medical-Student Certificate on application to the Regents at Albany, and will not be required to pass any examination, provided they appear before the Professor of Chemistry and Physics and submit satisfactory evidence that they possess the necessary qualifications in these subjects.

As the new requirements for matriculation will considerably increase the extent of preliminary education represented by the degree of M.D., it is recommended that, before they become obligatory, these examinations be taken by prospective students; and a special certificate of matriculation will be issued to successful candidates.

As a College of Arts and Sciences offers great advantages to prospective students of medicine, all who can do so are urged to take the Freshman and Sophomore years in the Academic Department at Ithaca. After the completion of these years the student may elect the work of the first two years of the medical department, which may

CORNELL UNIVERSITY MEDICAL COLLEGE.

be pursued at Ithaca, and at their expiration finish the remaining two years of the medical course in New York, and thus obtain both the B.A. and M.D. degrees in six years. This is possible because the first two years of the medical course in New York is offered in duplicate at the University in Ithaca. Women must take these years in the medical department in Ithaca, where special accommodations are provided for them in the Sage College. Women are received at the medical department in New York City in the third and fourth years only.

REGENTS' ENTRANCE EXAMINATIONS AND CERTIFICATES.

The following requirements for admission to candidacy for a degree in *any medical college in New York State* were established by laws passed by the Legislature, to take effect March 21, 1896.

Medical-Student Certificate.

Each student who matriculates with the intention of becoming a candidate for the degree of doctor in medicine, whether he comes to New York to begin or continue the study of medicine, must file with the Dean of the College a medical-student certificate issued by the Regents of the University of the State of New York.

This certificate is granted according to the following extract of the Laws of 1896, ch. iii. :

To provide for the preliminary education of medical students.

The degree of bachelor or doctor of medicine shall not be conferred in this State before the candidate has filed with the institution conferring it the certificate of the Regents that before beginning the first annual medical course counted toward the degree (unless matriculated conditionally as hereinafter specified) he had either graduated from a registered college or satisfactorily completed a full course in a registered academy or high school ; or had a preliminary education considered and accepted by the Regents as fully equivalent; or

CORNELL UNIVERSITY MEDICAL COLLEGE.

held a Regents' medical-student certificate, granted before this act took effect ; or had passed Regents' examinations as hereinafter provided. A medical school may matriculate conditionally a student deficient in not more than one year's academic work or twelve counts of the preliminary education requirements, provided the name and deficiency of each student so matriculated be filed at the Regents' office within three months after matriculation, and that the deficiency be made up before the student begins the second annual medical course counted toward the degree. Students who had matriculated in a New York medical school before June 5, 1890, and students who had matriculated in a New York medical school before May 13, 1895, as having entered before June 5, 1890, on the prescribed three years' study of medicine, shall be exempt from this preliminary-education requirement.

A medical-student certificate may be earned without notice to the Regents of the conditional matriculation either before the student begins the second annual medical course counted toward the degree or two years before the date of the degree for matriculants in any registered medical school, in the four cases following :

1. For matriculants prior to May 9, 1893, for any twenty counts, allowing ten for the preliminaries, not including reading and writing.
2. For matriculants prior to May 13, 1895, for arithmetic, elementary English, geography, spelling, United States history, English composition and physics, or any fifty counts, allowing fourteen for the preliminaries.
3. For matriculants prior to January 1, 1896, for any twelve academic counts.
4. For matriculants prior to January 1, 1897, for any twenty-four academic counts.

But all matriculants, after January 1, 1897, must secure forty-eight academic counts, or their full equivalent, before beginning the first annual medical course counted toward the degree, unless admitted conditionally, as hereinbefore specified, when the deficiency must be made up before the student begins the second annual medical course counted toward the degree.

This act shall take effect March 21, 1896, except that the increase in the required course of medical study from three to four years shall take effect January 1, 1898, and shall not apply to students who matriculated before that date and who receive the degree of doctor of medicine before January 1, 1902.

Notes on the Law.

1. For matriculants prior to January 1, 1897, medical schools are not required to furnish notice of conditional matriculation, and such students may make up

CORNELL UNIVERSITY MEDICAL COLLEGE.

the full requirement at any time before beginning the second annual course counted toward the degree, or two years before the date of the degree.

All matriculants after January 1, 1897, must secure forty-eight academic counts or their full equivalent before beginning the first annual course counted toward the degree, unless admitted conditionally, in which case the deficiency is not to exceed twelve academic counts and must be made up before the student begins the second annual course counted toward the degree.

2. The Regents will accept as fully equivalent to the required academic course any one of the following :

(a) A certificate of having successfully completed at least one full year's course of study in the collegiate department of any college or university registered by the Regents as maintaining a satisfactory standard.

Certificates should be issued in due form by the president, dean or principal of the institution, and should be signed under seal or acknowledged before a notary, unless the institution is in the University of the State of New York or the signature of the officer issuing is well known in the Regents' office.

(b) A certificate of having passed in a registered institution examinations equivalent to the full collegiate course of the freshman year or to a completed academic course.

Three full academic years of satisfactory work may be accepted as a high-school course till August 1, 1896, when four full academic years will be required.

(c) Regents' pass-cards for any forty-eight academic counts or any Regents' diploma.

(d) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(e) A certificate of successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(f) The bachelor's degree in arts or science, or substantial equivalents from any registered institution in France or Spain.

(g) Any credential from a registered institution or from the government in any foreign state or country which represents the completion of a course of study equivalent to graduation from a registered New York high school or academy, or from a registered Prussian gymnasium.

3. March 22, 1898, the Regents approved the following modifications in requirements for medical-student certificates :

(a) **Partial Equivalents.**—Evidence of completion in a registered school of one or more years of satisfactory high-school work, and Regents' examinations in subjects representing the balance of the required four-year course (any 12, 24, or 36 additional counts).

CORNELL UNIVERSITY MEDICAL COLLEGE.

(*b*) **Cumulative Credit.**—Regents' examinations in the second or third year of any language course will be accepted as including the preceding years in those courses.

(*c*) **Date of Certificate.**—Candidates unable to offer certificates of the required academic work in a registered institution may present evidence to the Regents that they had the required preliminary education before beginning the second course counted toward the degree, and may, on passing Regents' examinations, receive their certificates as of the date when the preliminary work was completed.

4. Other equivalent credentials from other States and countries besides those specified in the law, which may be accepted by the Regents in place of an examination, may be ascertained by written application to Examination Department, University of the State of New York, Albany, N. Y.

5. Any student who has matriculated under the legal requirements in regard to Regents' examinations, existing at the time of matriculation, will not require another certificate whenever he may be graduated.

6. If students unable to offer equivalents come from out of the State, they may enter the second course counted toward the degree, provided that at the preceding June or September examination they meet the preliminary requirement, and further provided, that the medical student certificate can be dated back under (*c*) above.

Medical-student certificates issued on "equivalents" without examination, may be obtained at any time before the degree of M.D. is conferred, provided that the course of study for which the certificate is issued was completed within the prescribed time.

Examinations under the Act.

Students who do not obtain a medical-student certificate without examination must pass an examination on the subjects required by the Regents. These examinations are held entirely under the charge of the Regents in New York, and in many other places throughout the State, on the following dates :

CALENDAR OF REGENTS' EXAMINATIONS.

YEAR.	JAN.	MARCH.	JUNE.	SEPT.
1901	21-25	27-29	17-21	24-26
1902	27-31	24-26	16-20	23-25

NOTE.—September examinations will be held in New York, Albany, Syracuse, and Buffalo, for law and medical students only. The other examinations are held in New York and in numerous academies and high schools throughout the State for professional and academic students.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Extracts from Regents' Rules.

Order of Studies.—There is no restriction in the order in which studies may be taken. Advanced students who may come from other States, or who, for other reasons, have not passed in elementary subjects, may take them at any time: *e. g.*, arithmetic after algebra or geometry; English composition after rhetoric, etc.

Time Limit.—There is no limit of time, but all credentials issued by the university are good until cancelled for cause. Studies necessary to obtain any credential may be passed at different examinations.

Seventy-five per cent. of correct answers is required in all subjects.

Answer papers will be reviewed in the Regents' office, and all papers below standard will be returned to the candidates. For those accepted, pass-cards will be issued.

Pass-Cards.—A Regents' pass-card is not limited in time; therefore it is not necessary to pass any Regents' examination a second time.

Medical-Student Certificate.—When all requirements are fulfilled, the Regents grant a medical-student certificate.

On receiving this certificate, the candidate must send it to the secretary or recording officer of the university or college at which he intends to study medicine.

N. B.—*Candidates for medical students' examination should send notice at least ten days in advance, stating at what time and in what studies they wish to be examined,* that required desk-room may be provided at the most convenient place.

Candidates who fail to send this advance notice will be admitted only so far as there are unoccupied seats.

Medical-Student Certificates Without Examinations.

Students who may be entitled to the medical-student certificates on equivalents (see notes on the law, 2, 3, 4, 5, and 6) are advised to present or forward their credentials to the Secretary of the College, who will send them to the Regents for examination and approval. They will be returned as soon as verified, and, if accepted, the proper certificate will be sent with them. The Secretary of the College will furnish, on application, blank forms of collegiate, academic, or high-school certificates.

Other equivalent credentials from foreign countries or from other States may be accepted by the Regents at their discretion.

The secretary will furnish full information on request.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Directions for Obtaining a Regents' Medical-Student Certificate.

1. Give the full name of the applicant, the exact name of the institution and of the department attended, an accurate description of the course pursued, using the same terms that are given in the official announcement, circular, or catalogue of the institution.

Send an official announcement, circular, or catalogue of the institution, showing :

(a) Requirements for admission ; *i.e.*, subjects and years given to their completion.

(b) Requirements for graduation in each course, including subjects pursued and time devoted to each.

JAMES RUSSELL PARSONS, JR.,

Director of College Dept.

Regents' Office, Albany, N. Y.,

15 April, 1898.

REGISTRATION AND MATRICULATION.

Students on entering the College must register and pay the registration fee of \$5. The payment of this fee is required only once. They will receive a receipt which will be exchanged for a certificate of full or conditional matriculation when they shall have complied with the Regents' requirements for such matriculation ; but students who have already been matriculated at a medical college in the State of New York, according to the Regents' requirements, and those who already hold a medical-student certificate, will be matriculated immediately on registration.

THE ADMISSION OF STUDENTS FROM OTHER ACCREDITED MEDICAL COLLEGES.

Admission to Advanced Standing.

Graduates of Cornell, Yale, Harvard, Princeton, University of Pennsylvania, Johns Hopkins, Columbia, University of Michigan, and other accredited universities, who have taken either a preparatory medical course or special work in organic or inorganic chemistry,

CORNELL UNIVERSITY MEDICAL COLLEGE.

physics, or physiology, will be allowed credit for the work which they have done, and may be excused from the recitations upon these subjects, and from the exercises of the chemical laboratory in the first year, provided they pass examinations before the professors of these departments, and provided they give to dissection and electives as described on pages 37-38, in the various departments, a full equivalent in hours to the subject they may have passed by examination.

Students who have had training in microscopical technique or in histology will be given advanced work in the histological laboratory.

Students who have already attended the requisite number of courses in other accredited medical colleges may be admitted to advanced standing in any one of the years of the four years' course of the Cornell University Medical College by presenting a Regents' medical-student certificate and by passing examinations in the subjects described on pages 75-78 as completed, in the year or years previous to that which the student desires to enter. The applicant must also present certificates of having satisfactorily completed laboratory courses equivalent to those required of the Cornell medical students in the year or years previous to that to be entered.

According to the law of the Regents of the State of New York, no student from an unregistered Medical School may obtain a degree on less than two years of medical study in this State.

Holders of Special Degrees.

Graduates of pharmacy or of dental or veterinary or other professional schools, who can present satisfactory evidence of having completed any course of study required in any year by this College, may upon passing a satisfactory examination be excused from attendance upon instruction in that subject, provided they take equivalent additional work in other branches.

Admission to Special Courses.

Graduates in medicine, or students who desire to pursue a special course without graduation, are admitted to registration as special

CORNELL UNIVERSITY MEDICAL COLLEGE.

students after approval by the head of the department conducting the course, without Regents' or other preliminary examination. Such special courses do not count in any way as part of the four years' course required of candidates for the degree of doctor in medicine. Further information regarding such courses, fees, etc., may be obtained by addressing the Secretary of the Cornell University Medical College, First Avenue, 27th to 28th Streets, New York.

NEW YORK STATE SCHOLARSHIPS.

Under the law of the State the Superintendent of Public Instruction is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly Districts in the State. These scholarships entitle the holder to free tuition for four years in any department of Cornell University. They are awarded on examination to candidates from the general Assembly Districts "in consideration of their superior ability and as a reward for superior scholarship in the academies and public schools of this State."

For particulars in regard to these scholarships, application should be made to the Superintendent of Public Instruction at Albany.

Holders of State scholarships are notified that failure to register before the close of registration day involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The President of the University is required by law to send immediate notice of such vacancies to the Superintendent of Public Instruction and the Superintendent fills vacancies forthwith.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS.

Pursuant to the action of the Trustees, at a special examination held at Ithaca, September 24 to 27, 1901, at the beginning of the freshman year, eighteen scholarships of the annual value of \$200 each will be annually thrown open to competition for all members of

CORNELL UNIVERSITY MEDICAL COLLEGE.

the freshman class who are registered in courses leading to first degree.

Students of high ability from the State of New York will have the additional advantage of being able to secure State scholarships, as there is nothing in the University statutes to prevent a student from holding both a State scholarship and a University scholarship.

These scholarships will be given to those who on examination shall average the highest in any three of the following groups, always including group (a). Previous to entering this competitive examination, however, candidates are required to pass satisfactorily the regular entrance examination in English at the University. *School certificates, Regents' diplomas, and normal school diplomas* are not accepted in place of this English examination.

(a) Plane geometry and algebra through quadratic equations.

(b) Solid geometry, advanced algebra, plane and spherical trigonometry. (c) Greek. (d) Latin. (e) French. (f) German.

For further information in regard to the scholarships see the Register of Cornell University.

CHARGES FOR INSTRUCTION.

First Year.

Registration ¹	\$5 00	
Tuition	\$150 00	
Laboratory fees	\$35 00	
	<hr/>	\$190 00

Second Year.

Tuition	\$150 00	
Laboratory fees	\$30 00	
	<hr/>	\$180 00

Third Year.

Tuition	\$150 00	
Laboratory fees	\$30 00	
	<hr/>	\$180 00

¹The registration fee is payable only once, on entrance.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Fourth Year.

Tuition	\$150 00	
Laboratory fees	\$25 00	
Graduation fees ¹	\$25 00	
	<hr/>	\$200 00

Tickets must be taken out and paid for at the beginning of the session.

Each student in the first three years is required to pay to the Clerk of the College ten (\$10) dollars each year to cover breakage in the laboratories. This sum, less the amount charged against it for breakage, will be returned to him at the end of each year.

SPECIAL STUDENTS.

Special students may, on the recommendation of the head of the department concerned, be admitted to any of the courses of instruction offered in the college, on the payment of a registration fee of five dollars and a tuition fee of twenty-five dollars, except in dissection, when the tuition fee is fifteen dollars.

GENERAL STATEMENT OF THE PLAN OF INSTRUCTION.

The chief features in the scheme of instruction are thorough laboratory training in all the subsidiary branches, daily recitations from standard text-books, clinical teaching in dispensaries and at the bedside in hospitals, and enough didactic lectures to make clear the

¹ The graduation fee is payable on registering for graduation. The tuition fees for the first two years at Ithaca are identical with those of the same period in New York. All fees are payable at the beginning of the term, but in special cases they may be paid semi-annually in advance. No rebate will be made in any case.

No remission of laboratory fees will be made because of previous instruction elsewhere in the subjects.

general principles and conflicting theories in the practice of medicine and surgery. All students in any one class advance simultaneously in the various subjects, and no section or group works apart from any other, thereby losing the opportunity to appreciate the relationship of the different matters which at any given time may be under discussion. Allowance, however, has been made for those who through natural endowments or superior energy or previous education can outstrip their less fortunate fellows. A careful record is kept of the attendance and character of the work of every student, and by this means at the end of the year each is placed in the section to which this record entitles him. A system of electives in clinical, laboratory, and recitation work is also provided, which it is the aim of the Faculty to enlarge as opportunities arise. A student is required to master all the subjects taught in any given year before being allowed to advance to the next, as the knowledge acquired in each year is necessary for a proper understanding of that which follows. Examinations are held at the end of each session; a failure to pass not more than two subjects, one of which at least must be a laboratory subject, is allowed in the spring, but every subject must be satisfactorily passed at the beginning of the next ensuing college year, or the applicant will be compelled to repeat the work of the preceding year. The following is a statement of the curriculum in each of the four annual sessions necessary to obtain the degree of M.D., and attention is called to the careful arrangement of the instruction in time and correlation in subject matter so as to provide for a proper understanding and assimilation of the knowledge imparted in the different departments.

The essential feature of the entire system is the division of the classes of the several years into small sections for recitations, demonstrations, laboratory exercises, and for clinical instruction in the college dispensary, and in the wards of the numerous hospitals attended by the members of the faculty.

If a student, without neglecting his required schedule work, desires to take advanced work and can make an opportunity to do this,

without interfering with the work of other students, he shall be permitted to do so and shall receive credit for it.

The first year is devoted to anatomy—several consecutive uninterrupted hours being provided for dissection—embryology, normal histology, chemistry, and physics. The gross anatomy of the thoracic, abdominal, and pelvic viscera is demonstrated in outline in the early weeks of the session in anticipation of the examination of these organs in the histological laboratory. At the same time the department of Physiology presents for consideration the cell, the blood, the circulation, respiration, digestion, absorption, secretion and excretion, in the order named. Thus the study of gross and histological anatomy and physiology advance together and in correlation with each other.

The general principles of mechanics, hydrostatics, optics, electricity, heat, and acoustics, and their application to medicine, are taught in lectures illustrated by experiments. Inorganic chemistry is studied in the laboratory throughout the year. The class is divided into small sections, each of which must attend daily one or more recitation exercises in anatomy, histology, physiology, and chemistry. These follow as closely as possible the practical work.

Students who have had the advantage of a thorough preliminary education in Physics and Chemistry before entering the medical school, after satisfactorily demonstrating to the professor in charge of this department, by examination or otherwise, that they are familiar with the work of the first year, may be excused from attendance upon physics and chemistry. In place of these subjects they must elect at least one of the following courses given in the second year—namely, laboratory pharmacology, or physiological chemistry, or bacteriology.

During the second year anatomy, physiology, and chemistry are completed, except as they are reviewed in recitations during the fourth year preparatory for the State examinations, and the study in text-books of medicine, surgery, obstetrics, and pathology is begun. The gross anatomy of the organs of special sense, and then that of

the nervous system, are taught at the outset of the year by demonstrations to small groups of students. The demonstration of these organs is followed as closely as possible by the study of them in the histological laboratory during the first half of the session. The lectures and recitations in physiology follow the same course, and, being antedated by the study of the gross and histological aspects of the parts under discussion, are capable of easy comprehension. Organic and physiological chemistry is studied in the laboratory and by lectures and recitations throughout the year. At the same time a laboratory course in pharmacology is pursued, familiarizing the student with the physical and chemical properties of drugs. Bacteriology is begun, the student commencing with the preparation and care of media and the recognition of the gross and microscopical characteristics of micro-organisms.

During the first few weeks of the term lectures are delivered upon the general principles of pathology, with particular reference to the elucidation and classification of the various forms of inflammation. The substance of these lectures will form the basis of the subsequent instruction in this subject in all departments, and thus insure uniformity in the teaching and understanding of the causes of disease. These lectures are supplemented by autopsies before small sections to demonstrate gross lesions. Several weeks are given to practical instruction in normal physical signs as applied to the chest. Having obtained some knowledge of pathology, the student by means of recitations is made familiar with the principles of surgery, medicine, and obstetrics.

Students who have completed elsewhere courses in physiological chemistry or pharmacology equivalent to those of the second year, may by passing examinations at the beginning of the term be excused from further attendance upon them.

Students thus excused from part of the second-year work and those who have been allowed electives in their first year may take one or more of the following elective courses during their second year--namely : 1. Bacteriology in its practical relation to disease. 2. Materia

medica recitations of the third year. 3. Manikin course in obstetrics. 4. Obstetrical clinic. The two latter elective courses are in preparation for the required work in practical obstetrics, which, usually taken in the third, can thus be taken during the second summer if desired.

In the third year medicine, surgery, materia medica, therapeutics, and obstetrics are studied systematically from text-books and practically at the bed-side, in the dispensary, and in general clinics. Enough didactic lectures are given by the Professors of Medicine and Surgery at the beginning of the session to explain general principles in symptomatology and diagnosis. Throughout the year the class must attend in small sections one or more daily recitations from standard text-books upon subjects previously assigned and learned. Pathology is studied in greater detail than previously, both in the laboratory and in the dead-house, and as far as possible morbid processes are demonstrated in advance of the study of the disease in the text-book or its clinical presentation.

In conjunction with the bed-side teaching instruction is given in all of the modern laboratory aids in diagnosis classified under the term of clinical pathology.

Groups of ten or twelve students are taught by individual experience the methods of examining patients for the detection of abnormal physical signs, and at the close of the session all students are expected to be familiar with the recognition and treatment of the common diseases and be conversant with the fundamental subjects of a medical education. The specialties taken up in this year are neurology, pediatrics, toxicology, and gynæcology. They are taught by clinical lectures as part of the general subjects of the practice of medicine, surgery, and obstetrics.

To meet the requirements of hospital and other boards of examination, such as those of the civil service or of the army and navy, students who wish to compete in these examinations may elect in third and fourth years to have all their recitation exercises with special instructors appointed by the faculty. A separate fee is required for this service.

CORNELL UNIVERSITY MEDICAL COLLEGE.

The fourth year is devoted chiefly to the study of diagnosis and treatment of disease at the bed-side, in the dispensary, and in clinics. The extent of this may be inferred from the present arrangement of the schedule, which contemplates about fifty hours of hospital-ward work in medicine and nearly the same number in surgery for every student. There are as few lectures as are consistent with the proper exposition of the chief problems confronting the profession, and these are delivered at the outset of the term, in order that the student may become familiar as soon as possible with the facts which are to be taught practically. For example, to the professor of medicine twelve didactic lectures are assigned. This proportion has to be exceeded somewhat in therapeutics, obstetrics, and the specialties, but many of these lectures are illustrated by the presentation of typical cases and are really clinics. The clinical instruction in surgery is supplemented by an operative course in which the student performs upon the cadaver all the common operations. Particular attention is also given to the methods of making medical and surgical diagnoses, and in this connection constant use is made of the bacteriological and chemical laboratories, where the student examines specimens taken at the bed-side during one exercise, and reports the results to the class at the next.

Hygiene and its application in the province of the physician and public health officer is taught by lectures supplemented by demonstrations of the plans and methods of the city health board.

The major part of the theoretical instruction, as in the previous years, is given by recitations in which the subjects of medicine (including neurology), surgery (including orthopædic surgery and genito-urinary diseases), therapeutics, obstetrics, and gynæcology are concluded, and pathology, anatomy, chemistry, and physiology and materia medica are reviewed.

The instruction in the specialties, which is made the distinguishing feature of this final year, is begun with a few clinical lectures and is continued by a course in the examination and treatment of dispensary patients by each student. Every one receives from fourteen

to twenty-one hours of this training (the number varies somewhat with the subject), and should become reasonably proficient in the use of instruments, the ability to make diagnoses and give relief. There is no attempt made to produce experts, but each one before graduation must know enough about the specialized branches of medicine to be a competent general practitioner. The lectures upon the physiology of the organs of special sense delivered in the fall to the second-year class, must also be attended by the seniors. These lectures serve as an introductory review of facts necessary for a proper knowledge of the specialties and obviate unnecessary repetitions by the different professors.

Every student must personally attend a definite number of cases of labor, and for this purpose the maternity service connected with the college offers excellent opportunities. The faculty earnestly recommend that this work be accomplished in the summer preferably of the third year ; by the proper choice of electives it is possible in the second summer, but this is not as desirable or profitable. If taken during the regular winter session much loss in other work would result. Those who for any proper reason cannot take this course as advised in the summer might, however, succeed in obtaining the necessary cases during the winter by selecting odd hours when not engaged in section work, and by arrangement with the office to receive telephone calls.

As in the previous year, there are the same electives in recitations for those who wish particularly to fit themselves for hospital and other competitive examinations. There is also offered an advanced course in neurology in a hospital devoted largely to the care of this class of patients. There will in addition be elective practical courses in the dispensary as opportunity arises.

DETAILS OF THE PLAN OF INSTRUCTION.

ANATOMY.

GEORGE WOOLSEY, M.D., *Professor of Anatomy.*

IRVING S. HAYNES, M.D., *Professor of Practical Anatomy.*

DR. WILLIAM F. STONE, *Instructor.*

Assistant Demonstrators of Anatomy,

DR. WILLIAM F. STONE,

DR. JOHN A. HARTWELL,

DR. FRANK S. FIELDER,

DR. CLARENCE A. MCWILLIAMS.

Anatomy is taught in the first and second years by lectures, recitations, section demonstrations, and dissection. A review quiz to prepare for State and hospital examinations is held during the fourth year. The course in anatomy is arranged to correspond as far as possible with the courses in physiology and histology.

Lectures in the first year are confined to practical applied anatomy of the bones and joints, and follow the recitations on these subjects. In the second year the lectures are devoted to regional, applied and surgical anatomy, the students being already well grounded in descriptive anatomy. The order of subjects is head and neck; thoracic, abdominal, and pelvic cavities and viscera, and perineum.

One lecture a week is given during the second year by the Professor of Practical Anatomy on the development and gross anatomy of the nervous system, the gross anatomy and relations of the extremities and the viscera.

Professor Gage will give six lectures on embryology during the month of March to first-year students.

Descriptive Anatomy is taught by recitations, section demonstrations, and dissection.

Recitations, from standard text-books, are held by the Instructor in Anatomy twice a week for each section of the first-year class and once a week for each section of the second-year class. During the first year bones, joints, muscles, arteries, and veins are

recited upon; during the second year the nervous system and the viscera. Written reviews are held at intervals under the direction of the Professor of Anatomy, the last of which is a general review or examination of the year's work. In the first year the students of each section begin to recite upon the bones of that part which they are to dissect at the end of the first fortnight, and so on for the remaining parts.

PRACTICAL ANATOMY.

Section Demonstrations are conducted by the Professor and Assistant Demonstrators of Practical Anatomy once a week for each section during the first and second years. During the first three months of the first year the students are prepared for their dissection by recitations in the classroom upon the bones, by section demonstrations on the cadaver of the part they are to dissect in the following fortnight, and by these means they are taught how to dissect, what to find, and where to find it. In addition, one preliminary demonstration is given weekly from October to January on the thoracic, abdominal, and pelvic viscera to prepare students for the courses in physiology and histology by demonstrating the organs whose function and structure they are to study. After this the joints are demonstrated. In the second year the brain and nervous system, the organs of sense, the thoracic and abdominal viscera, and the perineum are demonstrated.

Dissection.—The course in dissection is arranged on a laboratory basis—that is, the students are required to dissect during certain specified hours each day while the demonstrators are in attendance. This insures more satisfactory work on the part of the students and better supervision and teaching on the part of the demonstrators. Ten hours a week are assigned in the schedule for this anatomical laboratory course during the first and second year. In addition dissection is permitted at any time after 10 A.M., if the students are at leisure.

Two courses of dissection are required. The first course for first-

CORNELL UNIVERSITY MEDICAL COLLEGE.

year students comprises the dissection of three parts—the head and neck, and upper and lower extremities. This course is begun after the recitations and section demonstrations have prepared each student for the part assigned to him and continued in rotation for the remaining two parts. This course includes the dissection of the joints.

The second course consists of the dissection of four parts, and is designed for second-year students and such first-year students as have completed the first course. This course includes a review of the first course, with more particular attention paid to the minuter parts, and, in addition, the dissection of the brain, the trunk, with the thoracic and abdominal viscera, and the perineum. The first and the greater part of the second course may be finished during the first year. This will afford time in the second year for additional and advanced work after completing the required parts. Students are examined and marked on the dissection of each part required. Prepared bones are loaned to students during the session from a large collection kept for this purpose.

Preliminary training in comparative anatomy is very desirable. A practical, in addition to a written, examination is held by the Professor of Anatomy at the end of the second year. At the end of the first year there is a written review or examination on the work of the year.

Advanced, Special, and Post-Graduate Courses.—Facilities are offered to students and the medical profession for pursuing advanced, special, and post-graduate courses in practical anatomy.

PHYSIOLOGY.

AUSTIN FLINT, M.D., LL.D., *Professor of Physiology.*

Instructor,

DR. JOHN A. HARTWELL.

Assistant,

DR. LOUIS NEUMANN.

Instruction in this branch is given by lectures and recitations, during the entire session, to first-year and second-year students.

Lectures.—The lectures by the professor cover the field of medi-

cal physiology within the first two years. The first ten lectures of the second-year course, devoted to the special senses, are given to the second-year class and the fourth-year class together. Fourth-year students are thus enabled to review the special senses as an introduction to the study of ophthalmology and otology. Throughout the entire course on physiology special attention is paid to its applications to practical medicine and surgery, much time being devoted to what may be called applied physiology. Physiological chemistry, anatomy, and histology are taught only to the extent essential to a comprehension of the physiology of the systems and organs of the body. These subjects are completed by practical laboratory work.

Recitations.—First-year students recite twice a week, completing the subject of human physiology, as taught by the professor, except the nervous system and the special senses. Second-year students recite twice a week up to December 21st, and once a week after January 2d, on the special senses and the nervous system. They also briefly review the work of the first year. Review recitations for State Board examinations are held for fourth-year students.

CHEMISTRY, PHYSICS, AND TOXICOLOGY.

RUDOLPH A. WITTHAUS, M.D., *Professor of Chemistry.*

Assistant Professor,

DR. IVIN SICKELS.

Instructors,

DR. LOUIS W. RIGGS, DR. CHARLES G. L. WOLF.

Assistant,

CARROLL D. PARTRIDGE, B.S.

Lectures.—Students of the first year will receive three lectures each week on physics, the divisions of the subject being considered in the following order: General properties of matter and force, mechanics, hydrostatics, pneumatics, optics, electricity, heat, and

acoustics. The lectures will be abundantly illustrated, and the relations of physics to surgery and medicine will be particularly considered.

During the second year, students will attend two lectures weekly. Organic chemistry will be considered in the earlier part of the term to an extent sufficient to impart a knowledge of the principles of combination of the carbon compounds and the properties and relationships of those which are of physiological, toxicological, or therapeutical interest. The lectures during the latter part of the second year will be upon physiological chemistry.

During the third year one lecture will be given weekly on toxicology for twenty weeks. In these lectures the medical and medico-legal bearings of the subjects will be chiefly considered.

Recitation.—Students of the first year will recite twice each week on physics and the principles of chemistry and mineral chemistry. Those of the second year will recite once weekly on organic and physiological chemistry.

Laboratory Work.—Laboratory instruction will be given students of the first year four hours weekly during the entire session. This course will consist of an experimental study of the commoner elements and compounds in illustration of the recitation course, and of training in the processes of qualitative analysis of inorganic substances, and poison, mineral and organic.

Students of the second year will receive laboratory instruction two hours weekly during the term in physiological and clinical chemistry.

Each student is fully supplied with all apparatus and chemicals required, except urinometers, which are carefully corrected for the student that they may serve for future use.

These courses are conducted by the Assistant Professor, and by the instructors under the direction of the Professor of Chemistry and Physics.

First-year students presenting satisfactory evidence of having performed equivalent work in chemistry and physics will be excused from first-year work in this department, and be given advanced laboratory work equivalent in hours to that omitted.

MATERIA MEDICA AND THERAPEUTICS.

HENRY P. LOOMIS, M.D.,

Professor of Materia Medica and Therapeutics.

Instructors,

DR. WARREN COLEMAN,

DR. EDMUND P. SHELBY,

DR. WALTER ARTHUR BASTEDO, Ph.G.

Clinical Assistant,

DR. RUSSELL BELLAMY.

Instruction is given in this department during the second, third, and fourth years by means: 1. Lectures. 2. Clinical instruction. 3. Recitations. 4. Laboratory work.

Lectures.—These are given by the professor twice a week to the third-year students and once a week to the fourth-year students. They are confined almost exclusively to therapeutics, as it is believed that materia medica can best be taught by recitations and by laboratory work.

The lectures to the third-year students will consider the therapeutic uses of the most important drugs from the standpoint of the drug itself, such as the methods of prescribing the drug and the conditions for which it is given; only so much of the physiological action of the drug will receive attention as will explain its therapeutic value.

The lectures to the fourth-year students will be confined almost exclusively to a consideration of the systematic treatment of the different diseases. The plan of treatment will be given in detail, with definite instruction as to the drugs to be used and the preparations which are most reliable.

Lectures will be given on remedial agents other than drugs, such as massage, dietetics, climatology, mineral waters, and hydrotherapy.

Clinical Instruction.—A new departure in the teaching of therapeutics will be made by affording the students of the third and

CORNELL UNIVERSITY MEDICAL COLLEGE.

fourth years opportunity to observe the effects of the different remedies on the natural course of diseases. To accomplish this the classes will be divided into small sections and taken by the professor into the wards of Bellevue Hospital. Actual practice is given in the employment and application of the various therapeutic agents used in medicine, such as the aspirator, leeches, cups, cautery, stomach-tube and stupes. The hydropathic establishment connected with this hospital is one of the most complete in the country. Here to small sections will be demonstrated the various applications of water to the treatment of disease—such as baths, packs, douches, etc. A professional masseur will show the technique of massage and the Swedish movements. The treatment of the different diseased conditions observed will be systematically studied, and opportunities will be given to the members of the class to make personal examination of the patient and to watch the modification of disease produced by the remedies prescribed. The clinical work of the third and fourth years affords abundant opportunities for further training in practical therapeutics. A general medical clinic will be held by the professor^{*} once a week in the amphitheatre of Bellevue Hospital, at which special attention will be given to the treatment of the diseases under consideration.

Recitations.—Students of the third year will recite to the instructor twice a week from a standard text-book. During the fourth year a recitation will be held once a week on therapeutics.

The recitations will embrace a study of the action of all the more valuable remedial agents in connection with the description of the drugs themselves.

Each student will be thoroughly drilled in prescription-writing and in the doses of the more important drugs.

Examinations will be held at stated times during the session by the professor to enable him to judge of each student's progress.

Laboratory Work.—During the past year a new laboratory of *Materia Medica* has been completed, which now occupies two floors of the Loomis Laboratory building. The Laboratory is provided with

a complete assortment of crude drugs and with all the various preparations of the *Materia Medica* ; also with appliances for instruction in the methods of manufacturing pharmaceutical preparations. Instruments and appliances for special research in the physiological action of drugs have been added during the past year. The large classroom is supplied with sixty tables, equipped with gas, electric lights, water connections, and full apparatus, enabling each student to work separately under the supervision of the instructors.

The course of laboratory instruction is taken during the second year, and consists of six hours each week for half the year. The class is divided into small sections, which are under the personal supervision of the instructors. The method of teaching is distinctly practical. The student is made familiar by the laboratory work with the physical and chemical properties of drugs. This course includes such subjects as the forms of drugs, their weight and bulk, the measurement of solid and fluid drugs, methods of administering medicines, particularly with reference to appropriate combinations, and the study of solubilities. The subject of incompatibilities is clearly demonstrated.

Prescription-writing is taught throughout the course, and test prescriptions are compounded by members of the class.

MEDICINE.

W. GILMAN THOMPSON, M.D., *Professor of Medicine.*

Professors of Clinical Medicine,

ALEXANDER LAMBERT, M.D.,

CHARLES E. NAMMACK, M.D.,

WARREN COLEMAN, M.D.,

LEWIS A. CONNER, M.D.

Instructors,

DR. DEVER S. BYARD,

DR. C. N. BANCKER CAMAC,

DR. JOHN W. COE,

DR. MONTGOMERY H. SICARD.

The Course of Medicine, extending over three years, is so graded that the student pursues a logical sequence of work through-

out. No didactic lectures upon Practice of Medicine are delivered, their place being wholly taken by bed-side instruction and recitations. The complete course comprises the following subdivisions (the Roman numerals indicate the years of the course in medicine, not those of the curriculum) :

- I. Recitations from an elementary text-book.
Normal Physical Signs of the Chest.
- II. Recitations from an advanced text-book, including written reviews.
Abnormal Physical Signs of the Heart and Lungs.
Bed-side History-taking.
Bed-side course in Symptomatology.
Clinical Pathology.
Bed-side course in General Medical Diagnosis.
Eighteen lectures on General Symptomatology.
General Hospital Medical Clinics.
- III. Advanced bed-side course in Symptomatology and Diagnosis.
Demonstrations of patients by the student before the class.
Courses in the Out-Patient Clinic in the Heart and Lungs and General Medicine Classes.
General Hospital Medical Clinics.
Medical Conferences.
Twelve lectures upon Diatheses, Toxæmias, etc.
Elective advanced work in Clinical Diagnosis (Clinical Pathology, History-recording, etc.).
Review quizzes for State Board examinations.

The details of the methods of instruction in medicine for each year of the curriculum are as follows :

I. SECOND-YEAR STUDENTS.

Recitations.—Second-year students begin the study of medicine with systematic recitations from an elementary text-book, in which the subjects of nomenclature, etiology, morbid anatomy, and typical symptoms only are dwelt upon.

Physical Diagnosis.—Normal physical diagnosis of the chest is taught to sections of ten students each in classes from the Dispensary under Dr. Byard. Each student is required to map out upon the patient the normal positions and sounds of the thoracic viscera, and toward the end of each course of twelve lessons a few abnormal cases are introduced for comparison.

II. THIRD-YEAR STUDENTS.

Recitations.—Third-year students recite twice a week from an advanced text-book on practice, special emphasis being given to symptomatology, complications, diagnosis, and treatment.

Written reviews are held at intervals to familiarize the student with examinations. All recitations are obligatory, and the recitation marks received form an important component of the final examination marks of the year.

Ward Work.—Systematic and obligatory ward work is begun in classes not exceeding fifteen students each, who accompany the Professor of Medicine on routine rounds through the hospital wards. Professor Thompson instructs at the Presbyterian Hospital until January, and at Bellevue until the close of the session. Repeated illustrations of all the common diseases are studied, and the advantage to the student of personally examining many cases of such diseases as typhoid fever, pneumonia, nephritis, cardiac ailments, etc., in different stages of development, and of following their daily progress, far outweighs the obsolete system of attendance upon didactic lectures. The student is first taught to observe and describe symptoms and investigate etiology, and as he attains proficiency is required to make diagnoses, offer prognoses, and suggest treatment.

General Diagnosis.—Dr. Coleman gives a special course in general medical diagnosis, in which at one lesson the student is required to examine, compare, and report upon each variety of pulse found in the ward ; at another, upon each variety of cachexia, anæmia, or œdema ; at another, upon each variety of abnormal liver

or spleen; and so on, comprising all the important physical examinations.

Clinical Laboratory Courses are conducted under Dr. Camac's supervision in immediate connection with the study of hospital and dispensary cases. In this laboratory the student acquires methods and technique which he is required to put in practice with patients. The laboratory is also used extensively by the visiting staffs of the Hospital and Out-Patient clinic for completing the data of their cases.

The class is divided into small sections, so that each member receives the personal assistance of the demonstrator. At the conclusion of the course a written examination is held, upon the result of which, as well as upon the character of the work done, each successful student is given a certificate to the effect that he has completed the course. Upon the presentation of this certificate to the demonstrator in charge, the student is allowed the use of the laboratory and its apparatus for the study of cases in the wards. When assigned to cases at the general medical clinic the student is required to report the result of his examination of the sputum, blood, urine, etc. Students of the fourth year, reporting at the medical conferences, for which longer time is allowed for preparation, make more extended research in the laboratory. Students are also, from time to time throughout the year, assigned to study cases in the Hospital and Dispensary; records are kept of these cases from which valuable clinical deductions may be made.

The apparatus employed is of such simple nature that it can readily be transported to the bed-side, the work being thus essentially practical and such as is a direct guide to diagnoses. The student *himself* uses the apparatus so that he may become familiar with its care and application.

Following is a brief outline of the course:

BLOOD.—Technique of obtaining blood specimens; normal constituents of blood; blood formation in bone marrow; corpuscle counting and hæmoglobin estimation; technique of fixing and stain-

ing specimens ; diseased conditions determined by differential counting ; study of blood-serum diagnoses ; leucocytosis ; malarial and other blood parasites ; medico-legal value of blood stains.

SPUTUM.—Collection and examination of the gross specimen ; disinfection of sputum cups, etc. ; specimens of sputum in asthma, pneumoconiosis, tuberculosis, gangrene and hemorrhage from the lungs, pneumonia, etc. ; diphtheria and other bacilli.

GASTRIC CONTENTS.—Examination of vomitus ; administration of test meals ; method of obtaining and examining gastric contents ; lavage.

FÆCES.—Method of obtaining and examining ; intestinal parasites, and ova.

URINE.—Microscopic examination with reference to diagnosis ; gonococci, tubercle bacilli, etc., seminal fluid in its medico-legal aspect, crystalline deposits.

EXUDATIONS AND TRANSUDATIONS.—Ascitic and pleuritic effusions, cystic contents, vaginal discharges.

Each student is furnished typical specimens which he stains and studies at the demonstrations and preserves for future reference and comparison.

Physical Diagnosis.—Physical diagnosis of abnormal conditions within the chest is taught by Professor Lambert to classes not exceeding a dozen students each. This course of twelve lessons for each class is very comprehensive, owing to the large attendance at the class of heart and lung disease of the Bellevue Out-Patient Department and College Dispensary, from which the patients are derived.

General Medical Clinics.—General medical clinics are held weekly in the amphitheatre of Bellevue Hospital by the Professor of Medicine. At these clinics students read written histories of cases which they have studied on the previous day. They are required to demonstrate their findings upon the patient, and are questioned before the entire class in regard to diagnosis, etc. These clinics are also utilized by the Professor of Medicine to exhibit cases of exceptional rarity or difficult diagnosis. A second general medical clinic is held

CORNELL UNIVERSITY MEDICAL COLLEGE.

weekly in the Bellevue amphitheatre by the Professor of Therapeutics, at which the effects of treatment are made the prominent feature.

Lectures.—A course of eighteen lectures upon general symptomatology is given by the Professor of Medicine, which is designed as introductory to the systematic bed-side teaching which he conducts upon hospital rounds.

III. FOURTH-YEAR STUDENTS.

Fourth-year students attend the general ward classes and amphitheatre clinics with the Professor of Medicine as described for the third year, and also make systematic rounds through the wards with Professor Lambert and Nammack when on duty in Bellevue Hospital, and with Dr. Conner at the Hudson Street Hospital.

Lectures.—A course of twelve lectures is given by the Professor of Medicine upon such general topics as the diatheses, toxæmias, immunity, autointoxication, cachexias, etc.

Medical Conferences.—Under Dr. Coleman's direction, students are assigned to special cases which they study in detail for several weeks, reviewing the literature of the subject, and which they then report in writing at a medical conference, at which their fellow-students are called upon to offer criticisms and general discussion.

Students also attend special classes in the Dispensary, in which they assist in recording case histories and examining patients, and during the latter part of the year recite in a review quiz in preparation for hospital and State Board examinations. An elective course in advanced clinical pathology and diagnosis is offered in the fourth year.

SURGERY.

LEWIS A. STIMSON, M.D., *Professor of Surgery.*

Professors of Clinical Surgery,

FREDERIC S. DENNIS, M.D.,

FREDERICK W. GWYER, M.D.,

GEORGE WOOLSEY, M.D.,

FRANCIS W. MURRAY, M.D.,

FREDERICK KAMMERER, M.D.,

PERCIVAL R. BOLTON, M.D.,

ALEXANDER B. JOHNSON, M.D.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Instructors,

DR. JOHN ROGERS, JR.,

DR. BENJAMIN T. TILTON,

DR. ARCHIBALD E. ISAACS.

Assistants,

DR. WILLIAM F. STONE,

DR. H. M. ARCHER.

Surgery will be taught in the recitation room, at the bedside, at hospital clinics, and by lectures.

In the second year the students are required to attend recitations on the principles of surgery two hours a week throughout the term. For this purpose the class is divided into small sections to insure thorough work; so far as time permits instruction will also be given at the bed-side.

In the third year recitations are continued upon regional surgery; the class is instructed in sections in Bellevue Hospital in history-taking and methods of surgical examination and diagnosis, two or three hours a week for part of the term; bed-side instruction is given in several hospitals to small groups, and formal clinics are held in Bellevue, New York, and other hospitals; about thirty lectures will be given by the Professor of Surgery, and a clinic for diagnosis is held once a week at which the students are required personally to examine and report upon the cases.

In the fourth year the students will receive clinical instruction in small groups in several hospitals and dispensaries upon general surgery and the special branches—eye, ear, nose and throat, genito-urinary diseases, dermatology and orthopædics; will attend the clinics and will have a review quiz in preparation for examination.

The members of the sections are trained in the examination of patients, the dressing of wounds and fractures, the administration of ether and assisting at operations.

The opportunities for the instruction in the special branches are exceptionally ample. There will be several clinical teachers in each subject, each with hospital and dispensary services. The student

will be enabled directly to examine and study cases, and will have a certain choice as to the time given to each branch.

Operative surgery will be taught in the fourth year in sections. The course consists of recitations, work upon the cadaver, and bandaging. As the material is abundant, each member of the class will perform the principal surgical operations.

OBSTETRICS.

J. CLIFTON EDGAR, M.D., *Professor of Obstetrics and Clinical Midwifery.*

Instructors,

DR. GEORGE D. HAMLEN,

DR. GEORGE G. WARD,

DR. GEORGE P. SHEARS,

DR. GUSTAVE SEELIGMANN.

Instruction in obstetrics will be given during the second, third, and fourth years by—

1. Recitations. 2. Illustrative Lectures. 3. Obstetric Clinics and Conferences. 4. Attendance upon Cases of Confinement. 5. Manikin Practice and Section Work. 6. Obstetric Histology, Pathology, and Bacteriology.

1. Recitations from a standard text-book will be held by an instructor in obstetrics during the second year upon the physiology, and during the third upon the pathology, of obstetrics, the latter including obstetric surgery.

These recitations are so scheduled as to cover the entire field of the subject laid out for the college year, are supplementary to the work of the Professor of Obstetrics during each of these two years, and prepare the student for an intelligent appreciation of his subsequent illustrative lectures, obstetric conferences, attendance upon cases of confinement, clinics, and manikin practice.

2. The Illustrative Lectures comprise a systematic course, running through the third year, upon the physiology and pathology of obstetrics.

These lectures are theoretical to a limited extent only, being mainly demonstrative and illustrative in character. To this end ample blackboard space is used, as well as an abundant collection of pelvises, entire, normal and deformed, mesial sections of the same, and in addition a supply of diagrams, charts, carefully selected plaster, composition, and metal models, wet and dry preparations, and instruments.

In conjunction with these lectures additional recitations are held by the Professor of Obstetrics upon the subject-matter of the college year and for final review.

3. Obstetric Clinics and Conferences.—A weekly obstetric clinic is held throughout the year, for both the third- and fourth-year classes. At this clinic abnormal cases of pregnancy, labor, and the puerperium are demonstrated, and the major and minor obstetric operations performed.

In addition, infant feeding and the care of mother and child during the lying-in period and early infancy are taught. During both the third and the fourth year, members of the class will be called upon in rotation to examine patients and discuss etiology, diagnosis, prognosis, and treatment. These "obstetric conferences" will review the illustrative lectures, manikin work, and the student's work in his attendance upon confinement cases. By this means each individual student's standing in the department of obstetrics is ascertained. During the latter half of the second year six obstetric clinics are given at the hospital. Attendance upon these clinics is optional.

4. Attendance upon Cases of Confinement.—Each candidate for the degree of M.D. is required to present satisfactory evidence to the effect that he has attended a definite number of cases of confinement.

During the student's attendance upon his practical maternity course he may be excused from the exercises of the College during the fourth college year, otherwise he shall take his practical obstetric course during vacation time.

5. Manikin Practice and Section Work.—Manikin prac-

tice is given to sections of the class during the fourth or senior year, and consists of work by individual students upon the manikins, under the supervision and criticism of an instructor.

The mechanical phenomena of labor; modes of delivery; abnormal presentations and positions, with methods of delivery of each; version; application of the forceps, and other manipulations, will be demonstrated by the instructor and performed by the student.

Diagrams, models, casts, wet and dried specimens, will be used in the demonstrations.

The sections will also be instructed at the bed-side in the management of pregnant and parturient women, the care of the new-born child, abdominal palpation, and pelvic mensuration.

6. Obstetric Histology, Pathology, and Bacteriology.—Laboratory instruction is given during the third year by the Professor of Pathology upon the histology of the vulva, vagina, uterus, ligaments, Fallopian tubes, and ovaries in the pregnant and non-pregnant conditions, and upon the histology and pathology of the decidua, chorion, placenta, and umbilical cord.

GYNÆCOLOGY.

WILLIAM M. POLK, M.D., *Professor of Gynæcology and Obstetrics.*

Instructors,

DR. CHARLES C. BARROWS,

DR. WILLIAM TRAVIS GIBB,

DR. GEORGE D. HAMLEN,

DR. JOHN ASPELL.

Instruction in gynæcology is given by recitations, lectures, ward- and class-room demonstrations, clinics, and laboratory demonstrations.

Six Lectures, upon topics selected for their special interest and importance to the subject as a whole, will be given at the beginning of the third year.

Recitations are planned to cover the entire subject and are

held one hour a week during the third year of the course. In order that the instruction throughout the department may be as nearly in unison as possible, a synopsis of the subject-matter of each lesson is prepared by the instructor and amended and revised by the head of the department. This is presented to the student for comparison with his text-book, to which it is an addendum. This method insures the coöperation of the head of the department in the groundwork of his subject and enables him to keep in touch with each student until his graduation.

Classroom and Ward Demonstrations are given to sections of the fourth-year class twice a week throughout the year. This instruction includes the examination of patients by the students, who are thereby drilled in the methods of physical diagnosis as applied to the pelvis. When necessary the patients are anæsthetized.

The routine of treatment appropriate to the various conditions found is demonstrated, the students assisting when possible. In this way, not only is familiarity acquired with normal conditions within the pelvis and the various departures from this state induced by disease, but opportunity is afforded to see and put in practice actual measures of relief and to watch the subsequent course and treatment of these cases.

Operations are performed three days every week at which the several sections are enabled to study the detail of every operation peculiar to this department.

A General Clinic is held once a week at which students selected in rotation are required to examine the patient, make a diagnosis, and suggest treatment. They are questioned before the class upon all these topics, as they relate to the case in hand, so as to determine the correctness of their conclusions. Should operation be called for, it is then performed.

Laboratory Demonstrations of secretions, discharges, and specimens obtained from patients who come under observation during this course are made to sections of the third-year class as a part of the course in clinical pathology.

PATHOLOGY.

INCLUDING HISTOLOGY, GROSS AND MICROSCOPICAL
PATHOLOGY, AND BACTERIOLOGY.

JAMES EWING, M.D., *Professor of Pathology.*

DR. BERTRAM H. BUXTON, *Instructor in Bacteriology.*

DR. OTTO H. SCHULTZE, *Instructor in Gross Pathology.*

DR. JEREMIAH S. FERGUSON, *Instructor in Histology.*

DR. MAX G. SCHLAPP, *Instructor in the Histology and Pathology
of the Nervous System.*

DR. JAMES C. JOHNSTON, *Instructor in Pathology.*

DR. GUY D. LOMBARD, *Assistant Instructor in Histology.*

DR. HENRY S. PASCAL, *Assistant Instructor in Histology.*

DR. HENRY T. LEE, *Assistant Instructor in Pathology.*

DR. ALFRED E. THAYER, *Assistant Instructor in Gross Pathology.*

DR. LETCHWORTH SMITH, *Assistant Instructor in Bacteriology.*

DR. JOHN HOWLAND, *Assistant Instructor in Bacteriology.*

HISTOLOGY.

The work in this subject is conducted throughout the first and during a portion of the second year by laboratory exercises and by recitations. Laboratory exercises, in two-hour sessions weekly during half of the second year, occupy in all about 150 hours for each student. The work covers the construction and use of the microscope, the methods of preparing microscopical sections of tissues, and the normal histology of the various tissues and organs of the human body. Attention is constantly directed to the application of the knowledge to physiological phenomena, and to further this end the courses in physiology and histology proceed as far as possible in unison. When desirable the structure of human tissues and organs is illustrated by sections of embryonal and lower vertebrate tissues.

In the first year the blood and simple tissues, the gastro-intestinal tract and adnexa, and the respiratory, circulatory, and genito-urinary

organs are studied. In the second year the organs of the special senses and the nervous system are considered.

Recitations.—One recitation weekly for each student is held during the first year, and the first half of the second year, on subjects assigned from the text-book on histology. These recitations are designed to completely familiarize the student with the structure of the tissues considered during the previous week in the laboratory exercises.

An examination is held at the end of each year. The standing of the student in this, as in the other subjects, is determined equally from the work in the laboratory exercises and in the recitations.

PATHOLOGY.

The course of instruction in pathology gives in the second year a preliminary course of lectures on the theory and classification of inflammations, which is designed to acquaint the student with the main facts in this field, to prepare him for preliminary studies in medicine and surgery, and to establish a uniform system of nomenclature to be used in this and other departments. During one half the second year, also, attendance is required at one weekly demonstration in gross pathology, at which the more common visceral lesions are exhibited. This course is designed to accompany the preliminary recitations in medicine and surgery of the second year.

The main branches of the subject are grouped in the third year in order to secure the simultaneous study of the gross and microscopical changes in diseased tissues. In the fourth year the students perform autopsies, and attend one recitation weekly in review of the entire subject.

Microscopical Demonstrations in Pathology.—The microscopical demonstrations occupy three two-hour sessions weekly throughout the year, in all about 175 hours, and they constitute the main features of the instruction in this department. The specimens studied illustrate the topics of inflammation, tumors, autointoxications, infectious diseases, and diseases of the nervous system, and are

supplemented by lectures, and special demonstrations by means of sections, charts, lantern slides, and micro-photographs.

Demonstrations in Gross Pathology.—On the days alternating with the microscopical studies demonstrations of gross pathological specimens are given to the students of the third year, with the material collected from autopsies. With the viscera of each case is presented an epitome of the clinical history, and, when necessary, frozen sections of the organs, and the clinical symptoms are explained from the gross and microscopical changes in the altered tissues. The student here sees the viscera of many of the fatal cases which he has studied in the wards of the hospital.

Gross pathological diagnosis is taught as a separate branch of this subject, not bearing directly on the clinical aspect of the case.

These demonstrations occupy three two-hour sessions weekly, each section of the class attending one exercise weekly throughout the year.

Post-Mortem Examinations.—Students of the fourth year are required to perform autopsies under the direction of the instructor in gross pathology, when they are made familiar with the technical procedures required in ordinary and in medico-legal cases.

Recitations.—One recitation weekly is required of each student throughout the third and fourth years. In the third year they cover the work of each preceding week. In the fourth year they are held by the Professor of Pathology and cover the entire work of the department.

BACTERIOLOGY.

The laboratory course in bacteriology occupies three two-hour sessions each week for one-third of the second year—in all, sixty hours for each student. The student is first made familiar with the methods of disinfection, and is required to prepare the ordinary culture media. The work then proceeds to the methods of staining and examining bacteria; their artificial cultivation and the study of biological characters; the methods employed in the separation of species;

the general relation of pathogenic bacteria to disease ; and concludes with the biological analysis of air, water, soil, and milk. Cultures are made from the viscera of cases of the various infectious diseases, and the student is required to cultivate and identify the important pathogenic micro-organisms. The work is supplemented when necessary by the use of pure cultures, by the exhibition of anærobic cultures, and to a limited extent by inoculation in animals.

An Advanced Course in bacteriology is offered to those students who have been able in the first year to attend the course required in the second year.

This course includes the cultivation of other pathogenic micro-organisms, the separation of species, and the bacteriological examination of viscera secured at autopsies.

Advanced Courses and Original Research.—The abundant facilities of the Loomis Laboratory on the fourth floor of the new building can be offered to properly qualified students and practitioners of medicine who wish to pursue advanced courses of study on lines of original research, under the direction of special instructors.

SPECIAL DEPARTMENTS OF MEDICINE AND SURGERY.

DISEASES OF CHILDREN.

JOSEPH E. WINTERS, M.D., *Professor of Diseases of Children.*

Instructors,

DR. WILLIAM SHANNON,

DR. WALTER A. DUNCKEL.

Assistants,

DR. ROBERT S. ADAMS,

DR. HORACE S. STOKES.

This department will embrace clinical instruction and section teaching in all the important diseases of infancy and childhood.

There will be one clinical lecture each week in the College build-

ing, and clinical lectures in the Willard-Parker Hospital on scarlet fever and diphtheria.

In connection with the Dispensary of the Children's Department in the new College building there will be an amphitheatre for section teaching and isolation rooms for contagious diseases, so that students will have ample opportunity for the personal study of disease.

Three hours each week will be devoted to section teaching in the Dispensary to the students of the fourth year.

Students will be required to examine sick children and discuss the diagnosis and treatment of patients assigned to them.

Special attention is given to the hygiene and feeding of infants; the digestive disorders of infants; the dietetics of childhood and the food disorders of infancy and childhood; the anatomical and physiological peculiarities of infancy and childhood; and the influence these peculiarities have on the manifestations of disease in children.

One of the distinguishing features of this department will be the instruction of each student in the art of diagnosis, by the professor in charge.

There will be practical bed-side illustrations of the management, care, and therapeutics of all the acute diseases of infancy and childhood.

In the clinical laboratory microscopical examinations will be made of secretions and excretions, of lesions of the mouth and throat, and of sections of anatomical lesions of the important diseases of childhood.

SURGICAL DISEASES OF THE GENITO-URINARY ORGANS.

SAMUEL ALEXANDER, M.D.,

Professor of Genito-Urinary Surgery.

Instructors,

DR. MARTIN J. ECHEVERRIA,

DR. NEWTON B. WALLER,

DR. CHARLES L. GIBSON.

Assistant,

DR. FRANCIS E. SHINE.

The course is required of students during the third and fourth years, and is designed to give instruction in diagnosis and treatment of the surgical diseases of the male genital and urinary organs and in syphilis. It consists in recitations, lectures, clinics, and bed-side instruction in Bellevue Hospital, and section work in the Dispensary of the College.

Recitations.—Recitations will be held during the third and fourth years by the instructors in the department of general surgery.

Lectures.—One lecture a week from the opening of the term to the first of December will be given by Professor Alexander at the College. This course of lectures is designed to prepare students for the clinical work, and special attention will be given to the principles of diagnosis and the symptomatology of the surgical diseases of the urinary organs.

Clinic.—A clinic will be given in the amphitheatre of Bellevue Hospital once each week after the first of January by Professor Alexander. At this clinic the principal operations upon the male urinary and genital organs will be performed before the class, and special attention will be given to the subject of diagnosis. Attendance upon these clinics is required by students during the third and fourth years. A syllabus containing the history of the cases presented at each clinic will be given to each member of the class.

Section Teaching at the College Dispensary and at Bellevue Hospital.—The third-year class will be divided into sections of small size, and instruction will be given by the Chief of Clinic and the instructors in the Department in the College Dispensary. Special attention will be given in this course to the diagnosis and treatment of the venereal diseases and the use of special instruments. A syllabus of these lectures will be furnished to each member of the class.

The fourth-year class will be divided into sections of small size, and instruction will be given in the wards of Bellevue Hospital or in the College Dispensary by Professor Alexander. This course will be devoted principally to the diseases of the urinary organs and to instruction in the use of special instruments and apparatus and the

post-operative treatment of cases. The course will be continued throughout the entire session.

NERVOUS DISEASES.

CHARLES L. DANA, M.D.,

Professor of Diseases of the Nervous System.

Instructor,

DR. JOSEPH FRAENKEL.

Assistants,

DR. ROBERT M. DALEY,

DR. J. RAMSAY HUNT.

The regular work consists of a preliminary series of lectures by Professor Dana, in which the general outline of the work for the year is given, with demonstrations of the general anatomy, general symptomatology, and methods of examination of the nervous system. During the rest of the term clinical lectures on nervous diseases are held weekly in the amphitheatre of Bellevue Hospital. Section work is also given weekly to classes in the wards of Bellevue Hospital.

During part of the term special section work in clinical neurology and electro-therapeutics is given the students of the fourth year by the instructor or clinical assistants. Opportunities for special studies in clinical neurology are given students in classes under Dr. Fraenkel.

It is considered of the greatest importance that the student of nervous diseases be thoroughly grounded in the anatomy and physiology of the nervous system, therefore courses in gross and microscopical anatomy of the nervous system are provided in the histological laboratory. Special students can also take courses on the pathology of the nervous system.

Thus the course of instruction aims to provide the student before he graduates with instruction in the microscopical anatomy of the nervous system, in its physiology and pathology, and also that he shall receive practical clinical instruction in the amphitheatre, at the bedside, and in the dispensary.

MENTAL DISEASES.

ALLAN McLANE HAMILTON, M.D., F.R.S.E.,
Professor of Mental Diseases.

Instructor,

DR. WILLIAM HIRSCH.

Assistant,

DR. GEORGE DE FOREST SMITH.

The Professor of Mental Diseases will give a series of clinical and didactic lectures once a week for two months, illustrated by the lantern and cinematograph. Clinics will also be given at the asylum once a week during the latter part of the course.

Instruction will also be given in diagnosis, the legal commitment of the insane, and the relations of insanity to medical jurisprudence.

DERMATOLOGY.

GEORGE T. ELLIOT, M.D., *Professor of Dermatology.*

Instructors,

DR. THURSTON G. LUSK,

DR. HENRY H. WHITEHOUSE.

Instruction in Dermatology will be given by the clinical professor and his assistants. No teaching will be given didactically, but the cutaneous diseases will be demonstrated on the living subject. Abundance of material for such instruction is obtainable, and the student can thoroughly familiarize himself with the more common as well as with the rarer diseases of the skin by actual personal contact and observation. Attention is particularly paid to the diagnosis and the etiology of skin diseases, but their therapeutics also receive due consideration.

LARYNGOLOGY AND RHINOLOGY.

CHARLES H. KNIGHT, M.D., *Professor of Laryngology.*

Instructor,

DR. JAMES E. NEWCOMB.

Assistants,

DR. JOHN FREELAND,

DR. FRANK T. BURKE.

Instruction in Laryngology and Rhinology is given by clinical lectures at the College by the professor of the department. The subjects then considered are demonstrated to the fourth-year students by the assistants. The class is divided into sections, and each member is expected to examine patients and perform manipulations. The clinics are fully illustrated by plates and models, and, as far as possible, by clinical material.

OPHTHALMOLOGY.

CHARLES STEDMAN BULL, M.D., *Professor of Ophthalmology.*

Instructors,

DR. ROBERT G. REESE,

DR. COLMAN W. CUTLER.

Instruction in Ophthalmology consists in lectures at the College building once a week, during the months of October, November, and December, and in sectional teaching two hours a week at the College Dispensary throughout the year. The weekly lectures at the College are mainly didactic, and consider the subjects of physiological optics, the theory of the ophthalmoscope, refraction and accommodation, the anomalies of the ocular muscles, and the deep lesions of the eye which are not susceptible of clinical demonstration. Thus the entire field of ophthalmology is covered. The sectional teaching at the College Dispensary is devoted partly to clinical ophthalmology and the use of the ophthalmoscope, and partly to instruction in the errors of refraction and the rudiments of the fitting of lenses.

OTOLOGY.

GORHAM BACON, M.D., *Professor of Otology.*

Instructor,

DR. FRANKLIN M. STEPHENS.

Assistants,

DR. EARLE CONNER,

DR. GEORGE SLOAN DIXON.

During the first third of the fourth year a systematic course of weekly lectures is given. These lectures are practical in character, including a consideration of the anatomy and physiology of the ear and the various methods of examination. Patients are shown to the class in order to familiarize the students with the symptoms and character of the more important diseases.

For the fourth-year students, the class is divided into sections for clinical instruction in the Dispensary. Each student receives practical instruction from Professor Bacon and his assistants in the examination of patients, the use of the otoscope, and the various methods of testing the hearing. The student is permitted to examine patients and, after a probationary period, to prescribe for them and thus gradually assume the duties of a clinical assistant. The students have also an opportunity of witnessing the more important operations in aural surgery, including intracranial complications.

ORTHOPÆDIC SURGERY.

NEWTON M. SHAFFER, M.D., *Professor of Orthopædic Surgery.*

Instructors,

DR. P. HENRY FITZHUGH,

DR. JOHN MCGAW WOODBURY.

Assistant,

DR. HENRY SCOTT.

The course of study in the Orthopædic Department includes a stated clinical lecture once a week, with detailed demonstrations in sectional work twice a week during two months of the year.

CORNELL UNIVERSITY MEDICAL COLLEGE.

During the regular clinical course especial attention is given to the early recognition of the deforming diseases of childhood, also to the symptomatology, pathology, and differential diagnosis of chronic and progressive deformities, including the mechanical and operative treatment.

In detail, the course consists of practical illustrations of methods of treatment, the apparatus used being thoroughly explained both in construction and in principle, attention being called to even minute points of construction and use. The operative side is fully dwelt upon, the indications for operative interference as an adjunct to the mechanical work being demonstrated. Ample clinical material is provided, and models of conventional forms of apparatus are placed at the disposal of students.

In the section and laboratory work the student is required to assist in the management of selected cases, to familiarize himself with the various methods of treatment, to construct the simpler forms of apparatus, to secure a practical knowledge of the details of construction of the more complicated instruments, and to familiarize himself with the pathological conditions existing in the deformities of childhood.

DEPARTMENT OF HYGIENE.

WILLIAM R. WILLIAMS, M.D., *Lecturer.*

Instruction is given in this course to students of the fourth-year class by lectures and demonstrations one hour a week during half of the year.

The course is designed to enable physicians and health officers to cope with preventible disease.

The lectures treat of the hygienic relations of foods, water, clothing, schools, dwellings, and hospitals. Special attention is given to the prevention of infectious diseases by a study of their etiology and methods of transmission, and the subject of immunity. This part of the course supplements the work of the Department of Bacteriology. The hygienic aspects of marriage and heredity are also considered.

SUMMARY OF THE PLAN OF INSTRUCTION.

FIRST YEAR.

1. Anatomy.—One lecture and two recitations each week throughout the year.

Section demonstrations.—Two hours weekly until January, then one hour a week for the remainder of the session.

Embryology.—Six lectures on embryology during the month of March.

Dissection.—Three to five courses of four weeks each, ten or more hours weekly.

2. Physiology.—Two recitations each week. One lecture a week during the first half and two lectures a week during the second half of the session.

3. Chemistry and Physics.—Two lectures each week and one recitation-lecture on physics. Recitations two hours each week on inorganic chemistry. Chemical laboratory four hours each week throughout the session.

4. Histology.—Recitations two hours and laboratory four hours each week throughout the year.

5. Electives.—*a.* Laboratory pharmacology. *b.* Physiological chemistry. *c.* Bacteriology. These courses are open to certain advanced students as described on page 37 of the announcement.

In the course of the session three written reviews are held in the subjects recited upon. The papers are examined by the professors of the respective branches.

SECOND YEAR.

1. Anatomy.—Surgical and regional anatomy. Three lectures weekly. Recitation one hour each week. One demonstration lecture weekly. Section demonstrations one hour each week. Dissec-

tion, two to four courses of four weeks each, ten or more hours weekly.

2. Physiology.—Recitations two hours each week during the first half and one hour each week during the second half of the session, including a review of the work of the first year. Two lectures a week during the first half, and one lecture a week during the second half of the session.

3. Organic and Physiological Chemistry.—Two lectures each week. Recitation once a week.

Laboratory organic and physiological chemistry. Two hours weekly until February, then four hours weekly until the end of the session.

4. Histology.—Recitation one hour weekly, and laboratory work two hours weekly, throughout the session.

5. Pathology.—Ten lectures at the beginning of the year.

6. Gross Pathology.—One demonstration weekly for half the year.

7. Pharmacology.—Laboratory work six hours each week for half the session.

8. Medicine.—Recitation one hour weekly.

Physical diagnosis.—Three hours weekly for four weeks.

9. Surgery.—Recitations two hours weekly.

10. Obstetrics.—One weekly recitation. Six obstetric clinics (optional).

11. Bacteriology.—Laboratory work, six hours each week, for one-half of the session.

12. Electives.—*a.* Bacteriology. *b.* Materia medica recitations of the third year. *c.* Manikin course in obstetrics. *d.* Obstetrical clinic.

The conditions under which certain students may avail themselves of these electives are stated on page 38 of the announcement.

The study of the following branches is completed during the second year, and the examinations on them are final: (1) Anatomy (written and practical); (2) Chemistry and Physics; (3) Pharmacology; (4) Physiology; (5) Bacteriology.

THIRD YEAR.

1. Medicine.—Recitations two hours each week. Physical diagnosis in sections in the Dispensary. General medical diagnosis in sections at the bed-side. General medical clinics two hours each week in Bellevue Hospital. Ward visits in small sections with the Professor and Clinical Professors of Medicine in Bellevue and other hospitals. Eighteen introductory lectures.

2. Pathology.—Laboratory work six hours and recitations one hour weekly throughout the year.

3. Gross Pathology.—One demonstration weekly throughout the year.

4. Clinical Pathology (chemical and microscopical).—Twenty-five laboratory exercises of two hours each.

5. Materia Medica.—Recitations two hours each week.

6. Therapeutics.—Lectures once each week until January, then twice a week; one hour a week bed-side teaching in Bellevue Hospital throughout the year. Clinic once a week.

7. Obstetrics.—One illustrative lecture weekly. One recitation weekly. One clinic weekly.

8. Gynæcology.—Clinic in Gynæcology once a week. Lectures, six at the beginning of the year.

9. Surgery.—Lectures, thirty hours. General surgical clinics, two each week. Bed-side teaching, diagnosis, and history-taking in sections in Bellevue Hospital. Ward work in small sections in Bellevue, St. Francis, German, and the New York hospitals with the Professor and Clinical Professors of Surgery. Recitations on regional surgery two hours weekly.

10. Toxicology.—Lecture one hour each week for half the year.

11. Diseases of Children.—Clinic one hour each week.

12. Genito-Urinary Surgery.—Clinics once a week after January 1st.

13. Neurology.—Lectures once a week for the first five weeks. Clinics once a week for the following twenty weeks.

Dispensary teaching in one-hour periods for four weeks.

FOURTH YEAR.

1. Medicine.—Ward work in the hospitals. General medical clinics twice a week. Exercises in history-taking and in clinical microscopy continued. Twelve lectures. Recitations, conferences.

2. Surgery.—Ward work in the hospitals. General surgical clinics twice a week. Section work and clinics in the special branches. Operative surgery in sections. Recitations.

3. Therapeutics.—Lectures one hour a week. Recitation once a week. Clinical instruction in Bellevue Hospital. Section work in the College Dispensary in the treatment of diseases and in the writing of prescriptions.

4. Obstetrics.—Lectures one hour a week. Attendance upon cases of confinement. Manikin practice and section work. One obstetric clinic weekly. Recitations.

5. Pathology.—One review recitation a week.

6. Technique of Autopsies.—One exercise a week for a portion of the year.

7. Gynæcology.—Clinic one hour each week and ward demonstrations two hours each week. Recitations.

8. Diseases of Children.—Section teaching two hours each week. Clinic one hour each week. Clinical pathology.

9. Genito-Urinary Surgery.—Lectures one hour a week until December 1st. Clinics one hour a week after January 1st. Section work twice a week throughout the session.

10. Neurology.—Twenty clinics. Section work two hours a week in Bellevue Hospital.

11. Mental Diseases.—Twelve lectures. Clinics once a week for two months.

12. Dermatology.—Section work.

13. Laryngology and Rhinology.—Fifteen lectures. Section work.

14. Ophthalmology.—Ten lectures. Section work.

15. Otology.—Six lectures. Section work.

16. Physiology.—Two lectures a week during the first five weeks of the session on the physiology of the special senses.

17. Orthopædic Surgery.—Fifteen lectures. Section work.

18. Hygiene.—One lecture a week for three months.

19. Review Recitations.—For State Board examinations. During the last two weeks of the term in materia medica, chemistry, physiology, anatomy and pathology throughout the session.

EXAMINATIONS.

REQUIREMENTS FOR ADVANCEMENT IN COURSE.

Students are advanced in course from one year to the next upon passing examinations in the work of that year. As in the academic department of the University, the work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year. Students who have not succeeded in passing all their examinations will be allowed to enter upon the next year's studies, provided they pass examination in the subjects failed in at the beginning of the session.

Examinations for advancement in course, graduation, and admission to advanced standing are held at the close of the year on the work of the year. In each laboratory course extending through a part of the year only, the examination is held at the close of the course.

Examinations for conditioned students and those desiring admission to advanced standing, who have not taken the spring examinations, are held during the first fortnight of the fall term.

CORNELL UNIVERSITY MEDICAL COLLEGE.

The subjects examined upon are divided into major and minor subjects.

The minor subjects embrace laboratory courses and those in which instruction is given by recitations only.

Subjects of Examination for Admission to the Second Year.

Major Subjects..Anatomy (except the nervous system, viscera, and organs of special sense).

Inorganic Chemistry and Physics.

Physiology (except the nervous system and organs of special sense).

Minor Subjects..Histology (except the nervous system and organs of special sense).

Laboratory Inorganic Chemistry.

Conditions allowed (at the spring examinations): 1 Major and 1 Minor; or 2 Minor.

NOTE 1. In each of the laboratory courses of the first and subsequent years, students whose marks fall below a certain percentage will be allowed one reëxamination within two weeks of the completion of the course, failing in which they must repeat the laboratory course with the next succeeding section.

Students whose marks fall below this percentage in the chemical laboratory cannot be reëxamined, but must repeat the course with the next succeeding section.

NOTE 2. In each of those branches in which recitations are held throughout the year, there shall be two written reviews conducted by the instructors and supervised by the professor in charge of the department, and also a final written review conducted by the professor himself at the close of the year. The two written reviews conducted by the instructors shall be held, the one about the end of November, the other about the close of February, and shall count as a single recitation, the object being to ascertain the knowledge acquired by the student.

NOTE 3. *All conditions must be successfully passed before entrance into the next succeeding year will be allowed.*

Subjects of Examination for Admission to the Third Year.

Major Subjects..Anatomy.

Organic Chemistry.

Physiology.

Minor Subjects..Medicine.

Surgery.

Obstetrics.

Bacteriology.

Normal Histology (central nervous system and organs of special sense).

Pathology.

Pharmacology.

Laboratory Organic Chemistry.

Conditions allowed : 1 Major and 1 Minor ; or 2 Minor subjects.

(See Notes 1, 2 and 3, page 76.)

Subjects of Examination for Admission to the Fourth Year.

Major Subjects..Materia Medica.

Toxicology.

Pathology.

Minor Subjects..Obstetrics and gynæcology.

Medicine.

Surgery.

Pediatrics. } Clinical Paper.

Neurology. }

Conditions allowed : 1 Major and 1 Minor ; or 2 Minor.

(See Notes 1, 2 and 3, page 76.)

CORNELL UNIVERSITY MEDICAL COLLEGE.

**Subjects of Examination for Graduation at the End of
the Fourth Year.**

Medicine.

Surgery.

Obstetrics and Gynæcology.

Therapeutics.

Special Subjects :	{	Hygiene.	}	Clinical Paper.
		Mental Diseases.		
		Neurology.		
		Ophthalmology.		
		Otology.		
	{	Laryngology and Rhinology.	}	Clinical Paper.
		Pediatrics.		
		Dermatology.		
		Genito-Urinary Diseases.		
		Orthopædic Surgery.		

The recitation average in the primary branches reviewed in this year will be taken into consideration in determining the class standing at the end of the year.

Students conditioned in only one subject at the end of the fourth year will be given an opportunity to make up the condition within two weeks. If the second examination is satisfactory he may receive his degree at the Commencement at Ithaca.

Those conditioned in more than one subject or who fail to pass in the second examination just mentioned must repeat the work of the fourth year.

REQUIREMENTS FOR GRADUATION.

1. Candidates for the degree of doctor of medicine must have studied medicine for four full years in an accredited medical college, and the fourth year at least must have been spent in the Cornell University Medical College.

2. Candidates must present satisfactory evidence of good moral character and of being not less than twenty-one years of age.

3. Candidates must file with the Secretary of the Faculty the Regents' medical-student certificate as evidence of having complied with the requirements for admission. (Before entering the first year at least 36 counts must have been obtained ; before entering the second year the full certificate of 48 counts must be filed with the Secretary.)

4. Candidates must have dissected at least seven parts in anatomy (see page 43). They must, further, have taken the regular course of two weeks in practical obstetrics.

5. In addition to the yearly examinations above specified for advancement in course, candidates must pass at the end of the fourth year examinations in medicine, surgery, therapeutics, obstetrics and gynæcology, and the special branches as are specified on page 78.

6. Candidates rejected at the final examination will not be re-examined until after having repeated their fourth year of study.

Before being readmitted to the fourth year the candidate must pass a satisfactory examination in anatomy, physiology, chemistry and physics, and materia medica.

7. The degree will not be conferred upon any candidate who absents himself from the public Commencement without the special permission of the Faculty.

8. The Faculty reserves the right to terminate the connection of any student with the institution *at any time* on the ground of what they may deem moral or mental unfitness for the profession, or improper conduct while connected with the College.

REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN THE STATE OF NEW YORK.

All requirements for admission should be filed at least one week before examination.—They are as follows :

1. Evidence that applicant is more than twenty-one years of age (Form 1).

2. Certificate of moral character from not less than two physicians in good standing (Form 2).

3. Evidence that applicant has the general education required

CORNELL UNIVERSITY MEDICAL COLLEGE.

preliminary to receiving the degree of bachelor or doctor of medicine in this State (medical-student certificate. See examination handbook).

4. Evidence that applicant has studied medicine not less than four full school years of at least nine months each, in four different calendar years, in a medical school registered as maintaining at the time a satisfactory standard. New York medical schools and New York medical students shall not be discriminated against by the registration of any medical school out of the State, whose minimum graduation standard is less than that fixed by statute for New York medical schools.

The increase in the required course of medical study from three to four years did not take effect till January 1, 1898, and does not apply to students who matriculated before that date and will receive the degree of M.D. before January 1, 1902 (Form 1).

First exemption: "The Regents may in their discretion accept as the equivalent for any part of the third and fourth requirement, evidence of five or more years' practice of medicine, provided that such substitution be specified in the license."

5. Evidence that applicant "has received the degree of bachelor or doctor of medicine from some registered medical school, or a diploma or license conferring full right to practise medicine in some foreign country" (Form 3 of original credentials).

6. The candidate must pass examinations in anatomy, physiology and hygiene, chemistry, surgery, obstetrics, pathology and diagnosis, therapeutics, practice, and materia medica. The questions "shall be the same for all candidates, except that in therapeutics, practice, and materia medica all the questions submitted to any candidate shall be chosen from those prepared by the board selected by that candidate, and shall be in harmony with the tenets of that school as determined by its State Board of Medical Examiners."

Second exemption: "Applicants examined and licensed by other State examining boards registered by the Regents as maintaining standards not lower than those provided by this article, and appli-

cants who matriculated in a New York State medical school before June 5, 1890, and who received the degree of M.D. from a registered medical school before August 1, 1895, may, without further examination, on payment of \$10 to the Regents, and on submitting such evidence as they may require, receive from them an indorsement of their licenses or diplomas, conferring all rights and privileges of a Regents' license issued after examination."

7. A fee of \$25 payable in advance.

FINAL EXAMINATION IN THE SUBJECTS OF THE FIRST AND SECOND YEARS.

A law passed at the last session of the legislature permits students to take part of their examinations for the license to practise medicine in this State at the end of the second year. The Regents have therefore published a notice that examinations in Anatomy, Physiology, Hygiene, and Chemistry will be held during September, 1901, for students who have completed the second year of their medical course. The applicant must be twenty-one years of age, of good moral character, have the requisite preliminary education required by law, and pay a fee of \$25.00.

DIPLOMAS OF LICENTIATE OF THE ROYAL COLLEGE OF PHYSICIANS OF LONDON AND MEMBERSHIP OF THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

Graduates of the Cornell University Medical College are admitted to the final examination for the diploma of Licentiate of the Royal College of Physicians of London and Membership of the Royal College of Surgeons of England, upon presenting proper certificates that certain conditions applicable to the foreign universities and colleges which are recognized by the examining board have been complied with.

Further information may be obtained from the Secretary of the Board (Mr. F. G. Hallett) at the Examination Hall, Victoria Embankment, London, W. C.

CORNELL UNIVERSITY MEDICAL COLLEGE.

PRIZES.

The Harriet Crocker Alexander prizes, the first of \$150, the second of \$50, are awarded, the first to the student having the highest record, and the second to the student having the next highest record in the Graduating Class.

HOSPITAL APPOINTMENTS.

The students and graduates of the Cornell University Medical College are entitled to compete on equal terms with those of other colleges for positions on the resident staff of Bellevue and the other hospitals of the city.

Some of these hospitals are : The City, Harlem, Gouverneur, New York, St. Luke's, Roosevelt, Presbyterian, St. Vincent's, St. Francis', Mount Sinai, German, and Hudson Street Hospitals, New York Eye and Ear Infirmary, and the hospitals in Brooklyn and Jersey City, Newark, Paterson, etc.

The requirements, the times of examination, and the period of service differ. The details can be learned by application, written or in person, to the superintendents or to the secretaries of the medical boards of the various hospitals.

SUMMER SCHOOL.

Cornell University will continue during the summer of 1901 the Summer School which has proved of so much advantage.

The courses will cover the period from May 15th to August 1st, and the instruction will be chiefly clinical, with laboratory work and quizzes added.

The instruction has been especially arranged to economize time and furnish the greatest amount of varied clinical practice possible.

The subjects embrace clinical instruction in medicine, surgery, and the various specialties ; laboratory courses in histo- and clinical pathology, bacteriology, and toxicology, and quizzes in anatomy surgery, materia medica and therapeutics, and medicine.

A pamphlet giving full details can be obtained by application to the Secretary of the College.

BOARD.

Arrangements are made by the Clerk so that each matriculant of the College will be furnished with lists of good boarding-places at a convenient distance from the College building, at the very low rate of \$5 to \$6 per week. Further information may be obtained from the Clerk, at his office in the College, or from the Secretary of the Intercollegiate Young Men's Christian Association, 129 Lexington Avenue.

SUGGESTION.

It would be to the advantage of students if they would register a few days in advance of the opening exercises, secure boarding-places, and purchase books, so that their studies may not be interrupted in the beginning. The Clerk is in his office every day after September 1, from 10 A.M. to 2 P.M.

TEXT-BOOKS.

As a rule, only the latest editions of text-books should be purchased.

Anatomy—Text-Book, Gerrish, \$6.50; Reference Works, Morris, \$6.00; Gray, \$5.60; Quain, \$25.20; Haynes, *Guide to Dissection*, \$0.80; Treves, *Surgical Applied Anatomy*, \$1.60; Haynes, *Manual of Anatomy*, \$2.50.

Physiology—Kirke's *Hand-Book of Physiology*, sixteenth edition, Halliburton, 1900, \$3.00; Flint, \$4.80; Stewart, \$3.75; Foster, \$3.60; Landois.

Histology—Stohr, *Text-Book of Histology*, \$3.00; Schaefer, *Essentials of Histology*, \$3.00.

Bacteriology—Sternberg's *Manual of Bacteriology*, \$8.00; Muir and Ritchie, *Manual of Bacteriology*, \$3.25.

Chemistry—Witthaus, *Manual of Chemistry*, fifth edition, \$3.25; Witthaus, *Laboratory Course*, fourth edition, \$1.00; Ganot's *Physics*, \$4.00.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Medicine—Second year, Lockwood, \$2.50; third year, Musser, *Medical Diagnosis*, \$6.00; Thompson's *Practical Medicine*; for reference, Loomis-Thompson, *American System of Practical Medicine*, \$24.00.

Surgery—Tillman, 3 vols., \$15.00; *American Text-Book*, \$7.00; Parks, *Surgery*, 2 vols., \$9.00; Stimson, *Fractures and Dislocations*, \$5.00; Stimson, *Operative Surgery*, \$3.00; Dennis, *System of Surgery*, \$6.00 per volume; Parks, *Surgery*, 1 vol. ed., \$6.00.

Genito-Urinary—White and Martin, \$6.00; Hyde and Montgomery, \$2.50; Keyes and Chetwood, \$2.75.

Obstetrics—Hirst's *Obstetrics*, \$5.00; Winckel, \$5.00; Dorland, \$2.50; Jewett's *System of Obstetrics*, \$1.80.

Gynæcology—Penrose, \$3.75; Dudley, \$5.00; Kelly, \$15.00.

Materia Medica and Therapeutics—White, *Materia Medica and Therapeutics*, \$3.00; Coleman, *Syllabus of Materia Medica*, \$1.00; Hare, *Practical Therapeutics*, \$4.00; Thompson, *Practical Dietetics*, \$5.00.

Pathology—Delafield and Prudden, *Pathological Anatomy and Histology*, \$5.00; Orth, *Pathological Diagnosis* (Trans. of Sydenham Society); Ziegler, *General Pathology*, \$5.00.

Dermatology—J. Nevins Hyde, \$4.50.

Ophthalmology—Noyes, \$5.00; De Schweinitz, \$4.00; Swanzy, \$3.00; Jackson, \$3.50; Suter, \$1.50; Nettleship, \$3.00.

Otology—Bacon on the Ear, \$2.25; Politzer, *Diseases of the Ear*, \$7.00; Macewen, *Pyrogenic Infection*, \$4.00.

Nervous Diseases—Dana, \$3.50; Gower, *Diseases of the Brain and Spinal Cord*, \$8.00; Dercum, \$6.00; Obersteiner, *Anatomy of the Nervous System*, \$5.50.

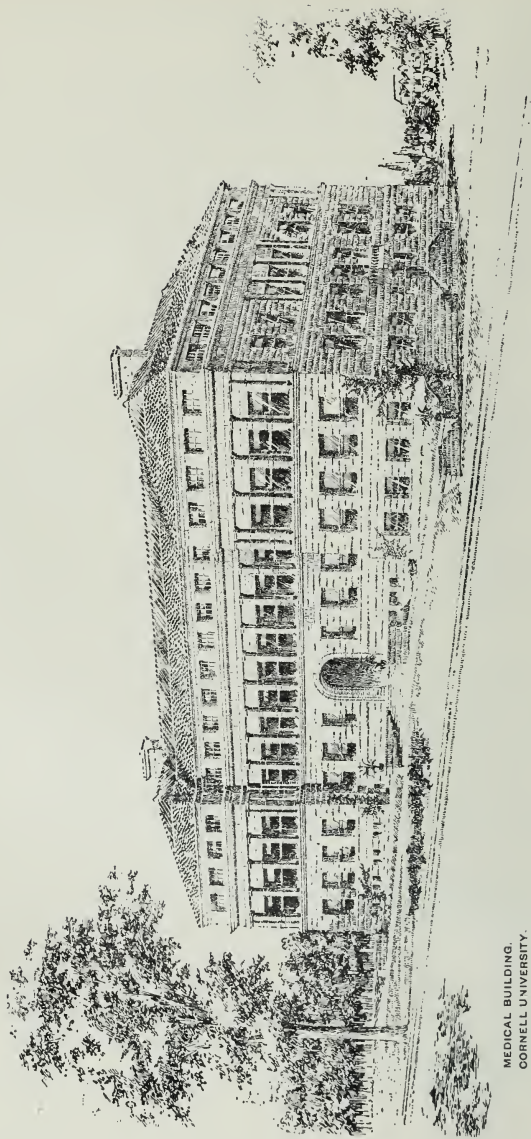
Diseases of Children—*Medical Diseases of Infancy and Childhood*, Williams, \$2.50; *An American Text-Book of the Diseases of Children*, Starr, \$7.00.

Orthopædic Surgery—Bradford and Lovett, \$4.75.

Gould, *Student's Medical Dictionary*, \$3.25.

Dissecting Cases—\$2.00 to \$5.00.

Text-books, etc., may be obtained from the Clerk at the College.



MEDICAL BUILDING.
CORNELL UNIVERSITY.
W. H. MILLER, ARCHT.,
ITHACA, N. Y.

INSTRUCTION AT ITHACA.

DURING THE FIRST TWO YEARS OF THE COURSE.

CALENDAR FOR ITHACA.

First Term, 1901-1902.

September 24th, Tuesday.—Academic year begins ; matriculation of new students ; University scholarship examinations begin.

September 25th, Wednesday.—Matriculation of new students.

September 26th, Thursday.—Registration of matriculated students.

September 27th, Friday.—Instruction begins in all departments of the University at Ithaca. President's annual address to students at 12 M.

December 21st, Saturday.—Christmas recess begins.

January 3d, Friday.—Work resumed.

January 31st, Friday.—First term closes.

Second Term.

February 3d, Monday.—Registration for the second term.

March 28th, Friday.—Easter recess begins.

April 8th, Tuesday.—Work resumed.

June 12th, Thursday.—Instruction ends.

June 19th, Thursday.—Thirty-fourth annual commencement.

General Statement.

Upon the establishment of the Medical Department of Cornell University in 1898, in New York City, by action of the Board of Trustees, it was resolved that the work of the first two years, consisting as it does mainly of fundamental scientific subjects, should also be given in Ithaca, where the admirable facilities offered by the long estab-

lished departments of Comparative Anatomy, Physics, Chemistry, Physiology, Histology, Embryology, and Bacteriology afford unrivalled facilities for thorough study. The remaining subjects of the first two years were also fully provided for.

Among the facilities of the University of special value to the Medical College may be mentioned the museums of Vertebrate and Invertebrate Zoölogy, including Entomology, Comparative Anatomy, of Agriculture, of Botany, and of Geology. The University Library, with its 250,000 bound volumes, 40,000 pamphlets, and 600 current periodicals and transactions, is likewise as freely open to medical students as to other university students.

As so many of the subjects of the first two years in medicine are purely scientific in character, they, according to long-established usage, count toward a degree in Arts; it thus came about that a part of the work of the students in Arts counts in a medical education also, and there naturally arose a combined course in arts and medicine by which the degree of A.B. and of M.D. could be obtained by the best men in six years (for a schedule of this combined course, see pp. 103-105).

Through the generosity of an anonymous giver, the University has been enabled to erect a building especially designed for anatomy, histology, embryology, and physiology. The building is constructed of Ohio sandstone, similar to the library and law school. The general form is that of an E, 160 feet long, with wings 40 feet square.

In the cellar is situated the cold-storage, embalming, and cremating rooms, a large room 40 feet square for aquaria, projection, etc., and store room.

In the basement is a room for the ventilating and cold-storage machinery, a photographic room, a recitation and a large lecture room, besides the lower part of the large amphitheatre.

On the first floor are located the cloak-rooms for men and women, office, library and faculty rooms, museum, two recitation rooms, upper part of the large amphitheatre, and assembly room.

The second floor is devoted to the departments of histology and

physiology, each with a large general laboratory, a research laboratory, preparation rooms and private laboratories for the staff of instruction.

The third floor consists of the general and special dissecting rooms, study room, amphitheatre, besides rooms for the staff.

The attic is utilized for macerating the skeletons and for storage.

The greatest pains have been taken for ventilation. The lighting, as shown by the accompanying picture, is almost perfect in all the rooms.

DEPARTMENTS, METHODS, AND FACILITIES.

ANATOMY.

ABRAM TUCKER KERR, B.S., M.D., *Assistant Professor.*

ROBERT ORTON MOODY, B.S., M.D., *Assistant Demonstrator.*

LAWRENCE HENDEE, M.D., *Assistant Demonstrator.*

AUGUSTUS GROTE POHLMAN, M.D., *Assistant Demonstrator.*

As shown in the following courses, the anatomy is given in the first and second years by recitations, section demonstrations, and dissection. Special stress is laid upon practical work in the laboratory.

During 1901 and 1902, courses 3, 4, and 5 will be given during the first half-year. All the laboratory work will be condensed into the second half-year. This alteration in courses is to give the students the full benefit of the new building, the dissecting rooms of which are to be ready for occupancy at the beginning of the second term, February 3, 1902.

CORNELL UNIVERSITY MEDICAL COLLEGE.

During the first year, second half, thirty-five hours per week are devoted to laboratory work, the class being divided into three groups assigned to head and neck, upper extremity and lower extremity. These starting simultaneously in February, will study the bones of their part before taking up the dissection. Upon the satisfactory completion of one part, the bones and dissection of another part will be taken up in a similar way. Those students completing the three parts in their first year, will be assigned to additional work.

During the second year, second half, thirty hours per week are devoted to laboratory work. The student will be assigned to the dissection of the thoracic and abdominal viscera; upon completing these there will be an opportunity to repeat any of the required work, or to do regional and special dissection, or original work. As the laboratory work in osteology and in dissection advances, the students are called from the laboratory in small groups for demonstrations upon the work which they have completed.

In the first year, a complete skeleton is loaned to each two students. During the two years, the student is required to make at least one complete dissection of the human body. The dissecting material is sufficient, thoroughly embalmed, and is kept in cold storage, so as to be ready for use when needed. The work is personal and practical, each student being independent of the others, so that those with special training or ability are in no way retarded by the slower members of the class. The object of the course is not only to teach the structure, connections, and relations of the parts of the body, but also to train the student in methods of scientific work, observation, and thought. The students are encouraged to make careful notes and drawings, and to record all variations from their text-book descriptions. For this purpose they are furnished with outline record charts.

In addition to the laboratory work, there will be two demonstrations per week to small sections of the class, on Topographical and Regional Anatomy. In these, special dissections will be shown to the students, and their attention called to the practical application of Anatomy to Medicine and Surgery. There will also be two prac-

ticums per week in which the structure, connections, and relations of the thoracic and abdominal viscera will be demonstrated, and two practicums devoted to the cranial nerves, organs of special sense, and other difficult parts. These will also be given to small sections.

Those who have satisfactorily completed the required work, and others properly qualified, will be given opportunity to do advanced and original work.

MICROSCOPY, HISTOLOGY, AND EMBRYOLOGY.

SIMON HENRY GAGE, B.S., *Professor.*

BENJAMIN FREEMAN KINGSBURY, A.B., Ph.D., *Assistant Professor.*

MARY JANE ROSS, A.M., *Assistant.*

CHARLES HERBERT BOXMEYER, A.B., *Assistant.*

As indicated by the following courses, this department offers elementary and advanced instruction in the theory and use of the microscope and its accessories, in photo-micrography, in vertebrate histology and vertebrate embryology; and opportunities for research in all of these subjects.

The material equipment consists of a good supply of modern microscopes, each one of which is fitted with a low and medium power dry objective and a 2 mm. homogeneous immersion objective. Camera lucidas, polariscopes, micro-spectroscopes, photo-micrographic cameras, and other special apparatus are in sufficient numbers to give each student opportunity for personally learning to use them, and for applying them to any special study in which they are called for. The general and research laboratories are large, and are equipped with microtomes, incubators, aquaria, etc. The collection of histologic and embryologic specimens is extensive and constantly increasing. Sets of typical specimens are available for study and comparison by the students.

The aim of the department is to bring the student into direct contact with the truths of nature, and hence, while there are lectures to

give broad and general views, there is a large amount of laboratory work in which the facts are learned at first hand, and the methods and manipulations necessary for acquiring the facts are practised by each student. It is recognized that less ground can be covered in a given time in this way, but it is believed, and experience has confirmed the belief, that the intellectual independence and power to acquire knowledge direct from nature which is gained by this personal work is of far higher value than the facts and theories that might be learned in the same time from books and lectures alone, or from specimens prepared by some other individual.

This lake region with its rich and varied fauna is especially favorable for investigations in the histology and embryology of all the main groups of vertebrates; and the proximity of the abattoirs in the city makes it possible to obtain material for the study of the development of the sheep, cow, and pig. The college clinic and the department of anatomy supply material for the embryology of the cat and dog, so that the opportunities for research upon the development of the domestic animals are excellent. Every encouragement is given for the fullest utilization of these opportunities.

Microscopy.—The first two weeks of the course are given to a study of the theory and manipulation of the modern microscope and its accessories, the underlying principles involved in the preparation, mounting, and study of microscopic objects.

Histology.—This part of the course includes the study of the fine anatomy of man and of the domestic animals, and also the fundamental methods of histologic investigation and demonstration with the microscope.

Embryology.—This deals with the elements of the development of man and of the domestic animals. For ease of demonstrating segmentation, the formation of the germ layers and the organs, the amphibian egg is studied. Then follows a short study of the developing hen's egg to illustrate meroblastic segmentation and to make intelligible some of the phases of mammalian embryology. The main part of the course, however, is devoted to mammalian development.

Gravid uteri are obtained from the abattoirs, and each student has the opportunity to dissect the placenta, fetal membranes, umbilical cord, and the fetus itself, demonstrating among other things the main features of the fetal circulation. For the microscopic study, the department is well supplied with complete series of embryos of the chick, pig, cat, calf, etc., and each student has for study four complete series representing the principal steps in histogenesis and the development of the organs.

NEUROLOGY.

BURT GREEN WILDER, B.S., M.D., *Professor.*

This department is housed in the north wing of McGraw Hall, and has a large museum in the centre of the building. The collection of carefully prepared brains of man, the anthropoids, and of other vertebrates is very large, and serves to illustrate in an admirable manner the morphology of the brain. The lectures given by Professor Wilder fall partly in the field of Physiology and partly in that of Anatomy.

Physiology of the Nervous System.—There are two lectures per week until the Christmas recess; they deal largely with the structure and functions of the nervous system and the sense organs.

Comparative Anatomy and Morphology of the Brain.—Two lectures per week from the Easter recess until the close of the college year. The lectures treat: (*a*) of the comparative anatomy of the brain; (*b*) of the morphology of the human brain; and (*c*) of the cerebral fissures.

Opportunities are also offered by Professor Wilder for research in Neurology and in Comparative Anatomy.

COMPARATIVE PHYSIOLOGY.

PIERRE AUGUSTINE FISH, D.Sc., D.V.M., *Assistant Professor.*

WALTER WELLS HOOVER, *Assistant.*

REUBEN PAUL HIGGINS, *Assistant.*

A. W. BAIRD, A.B., *Assistant.*

O. P. JOHNSTON, A.B., *Assistant.*

The instruction in this department is carried on by means of lectures, recitations, and practical work in the laboratory.

The lectures are illustrated by numerous lantern slides; practical demonstrations form a component part of the exercises wherever possible, and the relationship of physiology to practical medicine is thoroughly emphasized.

In the laboratory a few exercises are devoted to the physiology of the digestive processes and of the blood; the remainder of the work being devoted to the physiology of the nervous, muscular, and circulatory systems. The equipment includes kymographs, sphygmographs, sphygmometers, cardiographs, tambours, centrifuges, microscopes, and other apparatus essential for complete and satisfactory work.

Students are required to take notes, and to hand in their reports accompanied with the tracings and other data obtained from their experiments for inspection and correction.

MATERIA MEDICA.

PIERRE AUGUSTINE FISH, D.Sc., D.V.M., *Assistant Professor.*

WALTER WELLS HOOVER, *Assistant.*

REUBEN PAUL HIGGINS, *Assistant.*

A. W. BAIRD, A.B., *Assistant.*

O. P. JOHNSTON, A.B., *Assistant.*

In this department the work required of medical students consists of a laboratory course only, to serve as an introduction to the lecture

and clinical courses given in New York during the third and fourth years. The student is made familiar in this course with the physical and chemical properties of a selected number of drugs; incompatibilities are demonstrated, and the essentials of prescription-writing explained. A large assortment of crude drugs and many of their various preparations are available for examination.

The work in this course is divided into three parts. One month is devoted to the study of a selected group of inorganic drugs; the second month to the study of certain of the organic drugs and their official preparations; the third month to making pharmaceutical preparations, such as syrups, emulsions, spirits, liniments, tinctures, fluid extracts, extracts, ointments, pills, and others.

In their study, the students are required to write concise notes of the physiological action of the drugs examined. In addition to this each student will have practical experience in writing and compounding prescriptions.

PHYSICS.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D., *Professor.*

GEORGE SYLVANUS MOLER, A.B., B.M.E., *Assistant Professor.*

ERNEST MERRITT, M.E., *Assistant Professor.*

HOMER JAMES HOTCHKISS, A.M., M.M.E., *Instructor.*

CLAYTON HALSEY SHARP, Ph.D., *Instructor.*

The instruction in physics is by means of lectures throughout the year. In these lectures the general laws of Mechanics and Heat, Electricity and Magnetism, and Sound and Light are presented. The very large collection of lecture-room apparatus possessed by the department makes it possible to give experimental demonstrations of all important phenomena. The arrangements for experimental work are most complete. Ordinary illuminating gas, acetylene, oxygen and hydrogen, compressed air, water and steam, blast and vacuum are within easy reach, and electric currents from alternating and

direct current dynamos and from storage batteries are available. A masonry pier 4×12 feet permits the use in the lecture room of delicate apparatus that could otherwise be used only in the laboratory. A small turbine on the lecture table furnishes power for a variety of experiments. Lanterns with lime or electric light are always ready for use when they can in any way aid a demonstration.

The required course (2a) in physics for medical students consists of two lectures a week throughout the first year, and the reading of a text-book. Note-books prepared by members of the class are read and graded at frequent intervals. A longer course (2b), consisting of two lectures a week, two recitations a week, and one afternoon in the laboratory, is likewise open to medical students, and all those who can find the time to do so, are urged to take this course in place of the required work mentioned above. It should be chosen in preference to the latter by all who wish to prepare themselves for advanced work in the biological sciences. The lectures are the same as in the shorter course, but these are supplemented by thorough drill upon the principles of the science, and this, together with the laboratory practice, affords opportunity for a much more adequate knowledge than can be obtained from any course that consists solely of lectures.

During the second term the department offers a course in practical photography (Physics, 9 ; 2 hours), consisting of lectures and laboratory practice. This course is open to students of medicine under the conditions stated upon page 143 of the University Register.

CHEMISTRY.

GEORGE CHAPMAN CALDWELL, B.S., Ph.D.,
Professor.

LOUIS MONROE DENNIS, Ph.B., B.S.,
Professor of Inorganic and Analytical Chemistry.

JOHN ELLIS TREVOR, Ph.D.,
Professor of General Chemistry and Physical Chemistry.

CORNELL UNIVERSITY MEDICAL COLLEGE.

WILLIAM RIDGELY ORNDORFF, A.B., Ph.D.,
Assistant Professor of Organic and Physiological Chemistry.

Instructors in Chemistry,

THEODORE WHITTELSEY, A.M., Ph.D.

EMIL MONIN CHAMOT, B.S., Ph.D.

HENRY ROSE JESSEL, B.S., Ph.D.

Assistants in Chemistry,

MORRIS ROGERS EBERSOLE, B.S.

JOHN EDGAR TEEPLE, B.S.

ROBERT FISCHER, B.S.

BENJAMIN BERNARD TURNER, B.S., Ph.D.

ARTHUR RENWICK MIDDLETON, A.B.

GEORGE HEWSON BURROWS, B.S.

ELLIOTT SNELL HALL.

Inorganic Chemistry.—The elements of Inorganic Chemistry are taught by lectures, laboratory work, and recitations from a text-book. Careful attention is given to the writing of chemical equations and to the solution of chemical problems. Experiments illustrating the principles discussed in the text-books are performed in the laboratory by each student.

Qualitative Analysis.—The qualitative analysis begins with the study of those reactions of the elements and their compounds which are used in their reduction. This is followed by the practical application of the knowledge thus gained to the analysis of unknown substances, both in the solid form and in solution.

Urine Analysis—Qualitative and Quantitative.—In this course the most important of the normal and pathological constituents of the urine are determined both qualitatively and quantitatively.

Organic Chemistry, or the Chemistry of the Compounds of Carbon.—In this course the study of the typical compounds of carbon, their properties, reactions, and relations to each

CORNELL UNIVERSITY MEDICAL COLLEGE.

other, is taken up, especial attention being given to those organic compounds which are of physiological importance. The course consists of lectures and recitations, supplemented by frequent written examinations. The lectures are fully illustrated by experiments, specimens of the compounds considered, and charts.

Toxicological Chemistry.—This course is intended to serve as an introduction to the methods employed for the separation and identification of the common poisons.

Physiological Chemistry.—The work in this course comprises the study of the chemistry of the proteids, carbohydrates and fats, and of the compounds found in the animal body which are of physiological and pathological importance. The method of instruction is by lectures, recitations, and laboratory work, with frequent written reviews. In the laboratory the student separates from the various animal fluids and organs the chemical compounds which they contain, studies their properties, reactions, and products of decomposition, and thus familiarizes himself with the methods of isolation and identification of these products.

The above courses in Chemistry are required of all students in medicine. Other advanced courses are open to properly qualified students in medicine, and especial facilities for research work in chemistry are at their disposal.

BACTERIOLOGY.

VERANUS ALVA MOORE, B.S., M.D., *Professor.*

RAYMOND CLINTON REED, Ph.B., *Instructor.*

SAMUEL HOWARD BURNETT, A.B., M.S., *Instructor.*

OTTO FRED HUNZIKER, B.S.A., *Assistant.*

The instruction in Bacteriology is given by means of lectures, recitations, and laboratory work. The bacteriological laboratories are well supplied with the best modern apparatus. The student will, under proper supervision, prepare culture media, make cultures, and study the morphology of bacteria in both the fresh (living) condition

and in stained cover-glass preparations. In fact, all of the technique necessary for a practical working knowledge in bacteriology will be carefully covered. The more important species of pathogenic bacteria will be studied. The special methods which are necessary for diagnosing such diseases as tuberculosis, anthrax, glanders, and diphtheria will receive careful attention. Disinfection, sterilization, the means by which pathogenic bacteria are disseminated, protective inoculation, and other kindred subjects will be fully considered.

SURGERY.

LUZERNE COVILLE, B.S., M.D., *Lecturer on Surgery.*

Surgery.—Four hours weekly, during the first half year, lectures and quizzes. The course is given to small sections, and is intended to familiarize the student with the principles of General Surgery and Pathology, and to ground him in the surgical diseases, tumors, and fractures, and the technique of operative asepsis and antisepsis, and operation, dressings, and methods.

MEDICINE.

PAUL RICHARD BROWN, M.D., *Lecturer on Medicine.*

No didactic lectures are delivered, their place being taken by recitations from a standard text-book. Students also take up the subject of normal physical diagnosis in the latter part of the course.

Recitations.—The study of medicine proper is begun with systematic recitations from Lockwood's *Practice of Medicine*, an elementary text-book. In these recitations the nomenclature, etiology, pathology, and symptomatology of typical cases of diseases are considered, the question of treatment not being taken up until the Junior year in New York.

Physical Diagnosis.—Toward the end of the second-year course of Medicine, Normal Physical Diagnosis of the chest is taught in twelve lessons, some abnormal cases being introduced for com-

CORNELL UNIVERSITY MEDICAL COLLEGE.

parison. For the above work, the class will be divided into sections of about ten each.

OBSTETRICS.

PAUL RICHARD BROWN, M.D., *Lecturer on Obstetrics.*

Instruction in obstetrics consists mainly of recitations from a standard text-book, these recitations covering the anatomy of the internal genitalia and pelvis, ovulation, menstruation, signs of pregnancy, the physiology, mechanism, and clinical course of normal labor, and the care of mother and child during the puerperium. Whenever necessary, these recitations will be illustrated by plates, casts, and demonstrations upon the obstetric manikin, etc.

SCHEDULE AND SUMMARIZED STATEMENT.

In this schedule the Counts or University hours are given on the following basis: One recitation or lecture weekly for one term or half-year gives a credit of one; for laboratory work it requires two and one-half actual hours weekly for a term or half a year to secure a credit of one. In the courses of instruction following the schedule, the actual time required of the student at lectures, recitations, and laboratory work is stated.

SCHEDULE.

First Year.

	<i>No. of Course.</i>	<i>1st Term.</i>	<i>2d Term.</i>
Anatomy	1		14
Inorganic Chemistry	3	4	
Qualitative Chemical Analysis	8	1	1
Urine Analysis	13		2
Experimental Physics	2a	2	2
Physiology, Lectures	20	1	1
Physiology, Recitations	20a	3	
Microscopy, Histology, and Embryology	1	8	
Physiology of the Nervous System	1	1 1/3	

CORNELL UNIVERSITY MEDICAL COLLEGE.

Second Year.

						<i>No. of Course.</i>	<i>1st Term.</i>	<i>2d Term.</i>
Anatomy	.	.	.	.	.	2		10
"	.	.	.	.	.	3	1	
"	.	.	.	.	.	4	1	
"	.	.	.	.	.	5	1	
Neurology	.	.	.	.	.	3		1 $\frac{1}{3}$
Physiology	.	.	.	.	.	21	1	
"	Recitations	.	.	.	.	21a	4	
"	Laboratory	.	.	.	.	22	1 $\frac{1}{3}$	
Organic Chemistry	.	.	.	.	.	32	3	
Toxicology	.	.	.	.	.	68	1	
Physiological Chemistry	.	.	.	.	.	40		2
"	"	Lab.	.	.	.	41		2
Materia Medica	.	.	.	.	.	26	$\frac{2}{3}$	$\frac{2}{3}$
Bacteriology	.	.	.	.	.	43		6
Medicine	.	.	.	.	.	9	2	
Surgery	.	.	.	.	.	10	4	
Obstetrics	.	.	.	.	.	11	2	

Junior Year.—For subjects, see page 73, as given in New York City.

Senior Year.—For subjects, see page 74, as given in New York City.

SUMMARY OF COURSES OF INSTRUCTION.

FIRST YEAR.

1. Anatomy.—Laboratory work with section practicums and recitations, thirty-five actual hours weekly from February to June. (a) Upper extremity, ten hours weekly. (b) Lower extremity, ten hours weekly. (c) Head and neck, fifteen hours weekly. Course 1 (a), (b), and (c) is required of first-year students in Medicine; (a),

(*b*), or (*c*) may be taken separately by the students in Arts electing Medicine. (See the combined course of Arts and Medicine, page 103.) Assistant Professor Kerr, Assistant Demonstrators Hendee, Moody, and Pohlman, and assistants.

1. Microscopy, Histology, and Embryology.—Two lectures, two recitations, and twelve hours of laboratory work weekly for the first half-year. Professor Gage, Assistant Professor Kingsbury, and Assistants Ross and Boxmeyer.

(The work in Microscopy begins September 27 and continues till October 12; the Histology begins October 12 and continues till December 7; the Embryology begins December 7 and continues till January 31.)

1. Physiology of the Nervous System.—Two lectures weekly until the Christmas recess. Professor Wilder.

20. Physiology.—The Digestive Functions, Circulation, Respiration, and Excretion. One lecture each week throughout the year. F. 10. Dr. Fish.

20a. Recitations in Physiology.—Three hours each week. First half-year.

2a. Experimental Physics.—Two lectures, with demonstrations, weekly throughout the year. Professor Nichols and Assistant Professor Merritt.

3. Introductory Inorganic Chemistry.—Two lectures, two recitations, and five hours of laboratory work weekly. First half-year till Christmas recess. Professor Trevor and Dr. Jessel; Dr. Turner, Mr. Burrows, and Mr. Hall.

8. Qualitative Analysis.—One recitation and five hours of laboratory work weekly. Christmas recess until Easter recess. Professor Dennis and Dr. Whittelsey; Messrs. Fischer, Middleton, and Ebersole.

13. Urine Analysis, Qualitative and Quantitative.—One recitation and five hours of laboratory work weekly. Easter recess until end of year. Dr. Whittelsey, and Messrs. Fischer and Ebersole.

SECOND YEAR.

2. Anatomy.—Laboratory work with section practicums and recitations thirty actual hours weekly. February to June. (*a*) Thorax, seven and one-half hours weekly. (*b*) Abdomen, seven and one-half hours weekly. (*c*) Special, ten hours weekly. Assistant Professor Kerr, Assistant Demonstrators Hendee, Moody, and Pohlman. Course 2 (*a*), (*b*), and (*c*) is required of second-year students in Medicine. (*a*), (*b*), or (*c*) may be taken separately by students in Arts electing Medicine.

3. Topographical and Regional Anatomy.—Two section practicums weekly. September to February. Dr. Hendee. (Open to those students in Arts who have had Course 1.)

4. Thoracic and Abdominal Viscera.—Two section practicums weekly. September to February. Dr. Kerr.

5. Cranial Nerves and Organs of Special Sense.—Two section practicums weekly. September to February. Dr. Moody. Courses 3, 4, and 5 are required of second-year students in Medicine.

6. Advanced and Research Work.—Laboratory work eight or more actual hours per week. Assistant Professor Kerr.

3. Neurology.—Two lectures weekly after Easter recess. Professor Wilder.

4, 5, and 6. Advanced and Research Work in Microscopy, Histology, Embryology, and Cytology.—Laboratory work, eight or more hours per week, with seminary. Professor Gage and Dr. Kingsbury.

21. Physiology.—The Functions of the Muscular and Nervous Systems and the Sense Organs. One lecture each week, first half of year. Dr. Fish.

21a. Recitations in Physiology.—Four hours each week. First half-year. Assistants Hoover, Higgins.

22. Physiological Laboratory.—Five hours each week. First term until Christmas recess. Dr. Fish. Assistants Hoover, Higgins.

24. Research and Advanced Work in Physiology.—(See University Register.)

32. Elementary Organic Chemistry.—Two lectures and one recitation weekly. First half-year. Assistant Professor Orndorff and Mr. Teeple.

40. Physiological Chemistry.—Two lectures or recitations weekly. Second half-year. Assistant Professor Orndorff and Mr. Teeple.

41. Physiological Chemistry.—Five hours laboratory work weekly. Second half-year. Assistant Professor Orndorff and Mr. Teeple.

68. Toxicological Chemistry.—Two and one half hours laboratory work weekly. First half-year. Dr. Chamot.

Special facilities are provided by the Chemical Department for *advanced and research* work in chemistry. For a description of these courses see the University Register, page 145.

26. Materia Medica and Pharmacy, Laboratory.—Five hours each week. Christmas recess until Easter recess. Dr. Fish. Assistants Hoover, Higgins.

28. Advanced and Research Work in Materia Medica.—(See University Register.)

43. Bacteriology.—This course is open to students who have had or are taking Course 1 in Microscopy. Two lectures and ten hours laboratory work each week. Professor Moore; Instructor Reed and Mr. Burnett.

44. Research in Bacteriology.—Laboratory work with lectures and seminary throughout the year. Professor Moore and Instructor Reed. The course is designed for those wishing to undertake original investigation in Bacteriology preparatory to practical work in bacteriological lines, such as exists in health department laboratories. This course is open to students who have taken Course

43 or its equivalent in some other university. Elementary chemistry and a reading knowledge of French and German are indispensable for successful work in this course.

9. Medicine.—Two recitations weekly. First half-year. Dr. Paul R. Brown.

10. Surgery.—Two lectures and two recitations weekly. First half-year. Dr. Coville.

11. Obstetrics.—Two recitations weekly. First half-year. Dr. Paul R. Brown.

SIX-YEAR COURSE FOR THE DEGREE IN ARTS (A.B.), AND IN MEDICINE (M.D.).

There is presented below a definite schedule of studies which are required for the first two years in medicine. Although a definite schedule of the Arts and Science studies which do not count in the medical course is not given, it is recommended that a thoroughly good reading knowledge of French and German be acquired, and that students be advised to offer advanced mathematics for entrance, so that the longer course in physics may be taken. This is because in the longer course laboratory work forms an integral part. Finally, it is believed that it would be of great advantage for students to have taken, as a part of their preparatory work, some Latin and Greek. For example, the amount of Latin represented by a course requiring from three to five hours per week for one year, and the amount of Greek in Goodell's *Greek in English*.

For the elective Arts and Science work it seems very desirable that, besides the French and German mentioned, the student should take advantage of the courses in literature, history, and philosophy, as well as the scientific courses represented by the departments of geology, botany and zoölogy, physics, chemistry and mathematics.

CORNELL UNIVERSITY MEDICAL COLLEGE.

OUTLINE OF THE WORK OF THE FIRST FOUR YEARS FOR STUDENTS WORKING FOR A DEGREE IN ARTS AND SCIENCES (A.B.), AND A DE- GREE IN MEDICINE (M.D.).

The fifth and sixth years are given wholly to professional studies, at the division of the college in New York City.

If a student wishes to obtain both degrees in six (6) years he must pass $87\frac{2}{3}$ university hours counting toward medicine during the first four years. In order to do this, and not exceed the eighteen hours limit of the Department of the Arts and Sciences, he must begin the work counting toward medicine during the first year.

The following schedule of studies counting toward medicine is recommended :

STUDIES COUNTING TOWARD MEDICINE.	STUDIES NOT COUNTING TOWARD MEDICINE.
<i>First Year.</i>	<i>First Year.</i>
Inorganic Chemistry . . . 8 Physics (2a) 4 —12	Language, Literature, History, Science, Mathematics . . . 24
<i>Second Year.</i>	<i>Second Year.</i>
Organic and Physiolog- ic Chemistry, Toxicol- ogy 8 Histology and Embryol- ogy 8 —16	Language, Philosophy, History, etc. . . . 20
<i>Third Year.</i>	<i>Third Year.</i>
Anatomy 14 Physiology 6 Bacteriology 6 Materia Medica $1\frac{1}{3}$ —27 $\frac{1}{3}$	Literature, Philosophy, Science, etc. $8\frac{2}{3}$
<i>Fourth Year.</i>	<i>Fourth Year.</i>
Anatomy 17 Physiology $7\frac{1}{3}$ Medicine 2 Surgery 4 Obstetrics 2 —32 $\frac{1}{3}$	Languages, Science, etc. $3\frac{2}{3}$
Total hours to count to- ward medicine $87\frac{2}{3}$	Total hours not counting toward medicine 56 $\frac{1}{3}$

It will be noticed that the first two years are largely independent of medical subjects. No purely professional subject appears until the third year.

While the above schedule presents the arrangement of subjects for a course to be completed in six years, a seven- or an eight-year course for the two degrees presents many advantages.

REQUIREMENTS FOR ADMISSION.

For admission to the Ithaca division of the Cornell University Medical College, a medical-student certificate issued by the Regents is required. (For details, see pages 23-25.) No student is admitted except at the beginning of the college year in September.

RESIDENCE AND REGISTRATION.

The college year is nine months long, extending from the last of September till about the middle of June, and is divided into two nearly equal terms. (For exact dates, see calendar on page 85.)

Residence in Ithaca is required of all students. For leave of absence during the session, application should be made to the Secretary, Dr. Kerr.

At the beginning of each term (September 24-25, 1901, and February 3, 1902) students must register with the University Registrar, Room 9A, Morrill Hall. After registration with the University Registrar, they must register with the Secretary of the Medical Faculty, Dr. Kerr, Room 8, White Hall, south entrance, 4th floor.

SCHOLARSHIPS. (See page 33.)

EXAMINATIONS.

Students are advanced in course from one year to the next upon passing examinations upon the work of that year. As in the academic

CORNELL UNIVERSITY MEDICAL COLLEGE.

department, the work of each year is considered final of itself. There is no unnecessary repetition of subjects taught from year to year. According to the usage of the other departments, the university student found to be markedly deficient will be dropped from the college.

ADVANCEMENT FROM SECOND TO THIRD YEAR.

Upon the completion of the two years in Ithaca, the student must obtain from the Faculty a statement of all the work which he has done ; and accompanying this statement must be a recommendation that he be allowed to register in the New York division. As a student is not advanced from one year to another in the New York division until all the work of the year is completed, a student from Ithaca cannot enter the third-year class in New York until the entire schedule of the first two years has been successfully completed. For removing any conditions, examinations are held at the beginning of the fall term, both in Ithaca and in New York City. The student is at liberty to take these examinations in Ithaca or in New York City. The examination on a subject in either place is final for that year. That is, the student will not be permitted to try an examination on a subject in Ithaca, and take advantage of the later date for the examination in New York to have a second examination on the same subject in the same autumn.

If a student is deficient in two or more subjects there is no objection to his taking the examination in one or more subjects in Ithaca, and the remaining ones in New York, the same autumn.

MEDICAL SOCIETY.

The Cornell Medical Society is a student organization. Meetings are held on Wednesday evenings of alternate weeks. At these, papers prepared by the members are read, followed by general discussion. The aim is to give mutual aid in gaining general and special med-

CORNELL UNIVERSITY MEDICAL COLLEGE.

ical knowledge, facility in conducting the exercises of the meetings, and in presenting papers and discussions in a clear and forcible manner before an audience.

TUITION AND LABORATORY FEES.

Tuition each year	\$150
Laboratory Fees to cover cost of material.	

BOARD AND ROOMS.

The cost of living in Ithaca, including board, room, fuel, and lights, varies from \$4 to \$10 per week. By the formation of clubs, students are sometimes able to reduce their expenses to \$3.50 per week for room and board, and occasionally to even less than that amount.

The cost for board, rent of furnished room, fuel and lights, in Sage College and Sage College Cottage, which are exclusively for women, varies from \$5 to \$6.50 a week. A student occupying alone one of the best rooms pays \$6.50 a week. If two occupy such a room together, the price is \$5.75. Those occupying less desirable rooms, with two in a room, pay \$5 a week each. Both buildings are warmed by steam, lighted by electricity, and, in most cases, the sleeping apartment is separated from the study.

Letters of inquiry in regard to board and rooms at the Sage College and the Cottage should be addressed to Mr. G. F. Foote, Business Manager of Sage College, Ithaca, N. Y.

MATRICULANTS IN NEW YORK.

Abbott, Wilson Ruffin.....	New York City.
Adler, David	New York City.
Albones, Arthur William.....	Frankfort, N. Y.
Amster, Julius Louis.....	New York City.
Aranow, Harry.....	New York City.
Armstrong, Edgar B.....	Paterson, N. J.
Asserson, Mary Alice.....	Brooklyn, N. Y.
Atwater, Henry Harrison, Jr.....	Brooklyn, N. Y.
Aykrod, Anna.....	Kingston, Ont.
Backus, Harold Simeon.....	Andover, Conn.
Baldwin, Janette.....	Bethel, Conn.
Baldwin, Wesley Manning.....	Brooklyn, N. Y.
Banker, Ernest Ensign	Ft. Edward, N. Y.
Barringer, Benjamin Stockwell, B.S.	New York City.
Bassin, John Nicholas.....	New York City.
Beck, Ehrich Carl.....	New York City.
Becker, Henry Clinton, Jr.....	Clinton, Mass.
Behring, Joshua Aaron.....	New York City.
Benedict, Albert Newell.....	Yonkers, N. Y.
Bernfeld, Samuel Joachim	New York City.
Bernstein, Abraham.....	Binghamton, N. Y.
Boettiger, Carl.....	Long Island City, N. Y.
Bowen, Willis Elliot, Ph.G.....	Churchville, N. Y.
Bradford, Stella Stevens B.....	Montclair, N. J.
Brecht, Frederick William, Ph.G.....	Brooklyn, N. Y.
Brewster, Margaret Powell.....	New York City.
Brodman, Henry.....	New York City.
Brown, Christopher William.....	Brooklyn, N. Y.
Bunnimowitz, Ellis.....	New York City.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Burns, Geoffrey Chas. Henry.....	City Island, N. Y.
Cahoon, Joseph Henry.....	New York City.
Cameron, Irving Gourmotte.....	Brooklyn, N. Y.
Canfield, Amos.....	Van Etten, N. Y.
Cantle, William Henry	Norwich, Conn.
Carr, Hugh Holmes.....	New York City
Cartwright, Frederick Dean, A.B., M.D.....	Bowling Green, Ky.
Castle, Sargh Allen, M.D	Enfora, Miss.
Ceasar, Abraham Louis.....	New York City
Chasina, Charles Louis.....	New York City
Cifaldi, Alexis.....	New York City
Cimillo, William Anthony.....	New York City
Climenko, Hyman	New York City
Cohen, Herman.....	New York City
Cohn, Julius.....	New York City
Costigan, Leo Hubert.....	New York City
de Koven, Bernard.....	New York City
Dolan, Paul	Brooklyn, N. Y.
Dosh, Louis Philippe.....	New York City
Druskin, Samuel Jerome, B.S.....	New York City
Dunning, Emily, B.S	New York City
Dutari, Aurelio Arturo, A.B.....	New York City
Dyer, Frank Merrit.....	Binghamton, N. Y.
Eaton, Alvin Richard, Jr... ..	Elizabeth, N. J.
Edinburgh, Simon Henry.....	New York City
Edlich, Theodore Julius, Ph.G.....	New York City
Ehlers, Edmund Armenius.....	New York City
Ehrlich, Simon.....	New York City
Ellis, Alfred Lander, B.S.....	Hartford, Conn.
Elysowitz, Joseph.....	New York City
Epstein, Sigmund.....	New York City
Everett, Frederick, B.S.....	Potsdam, N. Y.
Farr, John Clark, Jr.....	Hoboken, N. J.
Farrell, Benjamin Peater	Pittsfield, Mass.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Faust, John Wesley, B.S.....	Poughkeepsie, N. Y.
Feldman, Samuel.....	New York City
Fincke, Harry Starke, Ph.G.....	Long Island City, N. Y.
Fine, Abraham.....	New York City
Finley, Caroline Sandford.....	New York City
Fish, Joseph.....	New York City
Fisher, Archie Max.....	Spencer, N. Y.
Fisher, Carl DeWitt, Ph.B.	New York City
Fleming, Mark L.	Summit, N. J.
Flynn, Frederick Laurence	New York City
Foster, DeWitt Parshall.....	Lyons, N. Y.
Frank, Samuel	New York City
Freedman, Louis	New York City
Geddes, Susan Baker.....	Newark, N. J.
Gettinger, Joseph Hermann	New York City
Geuser, Gerhard William	Brooklyn, N. Y.
Giamarrino, Henry James	New York City
Glasgow, Maud.....	New York City
Goldberg, Jacob Martin	Brooklyn, N. Y.
Goldfarb, Samuel Joseph.....	New York City
Goldstein, Isidor.....	New York City
Good, George	Jersey City, N. J.
Green, Arthur Randolph	New York City
Greene, James Sonnet.....	New York City
Greenfield, Samuel.....	New York City
Gregory, Alice	New York City
Grossman, William, A.B.....	New York City
Gundacker, Henry John, A.B.	New York City
Hamill, John Dulap.....	New York City
Hannessen, Walter Scott.....	New York City
Hayden, John Aloysius.....	Brooklyn, N. Y.
Henning, Walter Hannibal	New York City
Herbert, Leo John Charles.....	Syracuse, N. Y.
Hertz, Julius Jacob	New York City

CORNELL UNIVERSITY MEDICAL COLLEGE.

Hildreth, Edward Raymond, A.B.	Bridgehampton, N. Y.
Hilkowich, Abe Maurice	New York City
Hirsch, Henry	New York City
Hitchcock, Ethel Olivia Hunter.....	New York City
Hoeftling, Gustav Christopher	New York City
Hoerle, Horace Poinier	Ridgewood, N. J.
Holt, Corliss Mason.....	Fishkill-on-the-Hudson, N. Y.
Horowicz, Alfred Joseph.....	New York City
Horowicz, Bruno.....	New York City
Hughes, John Howard.....	Jersey City, N. J.
Hyman, Charles.....	New York City
Isaacs, Julius.....	Brooklyn, N. Y.
Ives, Frederick Merwin, B.A., M.D.....	New York City
Jacknowitz, Morris Arthur.....	New York City
Jagle, Elizabeth Carlisle.....	Brooklyn, N. Y.
Janson, Christian William	Brooklyn, N. Y.
Joachim, Henry.....	Brooklyn, N. Y.
Johnson, Dwight Fenn.....	Wolcott, N. Y.
Johnston, Harry Isaac	Ovid, N. Y.
Kaempfer, Louis Zakiel.....	New York City
Kahn, Robert Johnston.....	Inwood, N. Y.
Kappelle, George Louis.....	Bronxwood Park, N. Y.
Kern, James Valentine	New York City
Kilbane, Edward Francis.....	New York City
Kingston, Augustus Thomas, B.A.....	New York City
Kleinbaum, Edward	New York City
Klemann, George Francis.....	New York City
Klinkowstein, Jacob.....	New York City
Knaus, Charles William.....	New York City
Koehler, Leopold Jacob.....	New York City
Kommel, Louis Moses.....	New York City
Lawrance, Elliott Wagstaff	Rochester, N. Y.
Lazarus, David.....	New York City
Levine, Morris.....	New York City

CORNELL UNIVERSITY MEDICAL COLLEGE.

Levitas, George Max.....	New York City
Levy, Abraham Aaron.....	New York City
Licht, Louis Frederick, Ph.G.....	Gundeshofer, Germany
Lippmann, Thomas Charles, Ph.G.....	Sag Harbor, N. Y.
Lipschitz, Jacob Meyer.....	New York City
Lipschitz, Julius Philip.....	New York City
Livingston, Elizabeth Handford.....	Brooklyn, N. Y.
Losee, Mace Anderson.....	Livingstonville, N. Y.
Ludwig, Robert Francis, A.B.....	Chicopee, Mass.
Lysaght, Bella Bernadette.....	Brooklyn, N. Y.
Macdonald, Robert Stevenson, Ph.D.....	London, Ont.
MacLeod, Douglas Murdoch.....	Valley Field, P. E. I.
MacMillan, Mary, A.B.....	New York City
McCaffrey, Henry John Aloysius.....	New York City
McDonald, Robert Francis.....	New York City
McGlennon, Cornelius Augustine, A.B.....	Newark, N. J.
McLean, Donald.....	New York City
McLean, John Howell, Jr., A.B., M.D.....	Fort Worth, Texas
Magill, William Henry, Ph.B.....	Providence, R. I.
Mallon, Richard Sandford.....	Paterson, N. J.
Martin, James Francis, A.B.....	New York City
Maxon, Cullen B.....	Jersey City, N. J.
Mayer, Ethel, A.B.....	New York City
Meacham, Leslie James.....	New York City
Milbank, Samuel.....	New York City
Miltimore, Dean, B.S.....	Catskill, N. Y.
Mislig, Michael, Ph.G.....	New York City
Mix, Charles Melville, A.B.....	Friendship, N. Y.
Montgomery, Greenville Dodge, A.B.....	Council Bluffs, Iowa
Moses, Chester Davis, E.E.....	Cortlandt, N. Y.
Moses, Henry Ralph.....	New York City
Moskowitz, Abraham.....	Brooklyn, N. Y.
Mourning, Charles Morton, M.D.....	Louisville, Ky.
Munson, Arley Isabel.....	Brooklyn, N. Y.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Netter, Mark Leon.....	New York City
Nichols, Carrol Leja.....	Brooklyn, N. Y.
Niles, Walter Lindsay.....	Lebanon, N. Y.
O'Flaherty, Ellen Pembroke.....	Hartford, Conn.
Osborne, Charles Lester.....	Jersey City, N. Y.
Palmer, William Hailes.....	Mechanicsville, N. Y.
Parker, Jason Samuel.....	Lyons, N. Y.
Pearson, Henry, B.S.....	Tuscaloosa, Ala.
Pfeiffer, William.....	Brooklyn, N. Y.
Pounds, Thomas Canfield.....	Breesport, N. Y.
Racoosin, William, Ph.G.....	New York City
Raphaelson, Samuel Joshua, B.S.....	New York City
Reardon, Walter Louis.....	Jersey City, N. J.
Robinson, Henry Ulysses.....	New York City
Robinson, John.....	Brooklyn, N. Y.
Romansky, Benjamin.....	New York City
Rose, William Walter.....	South Orange, N. J.
Rosenberg, Herman.....	New York City
Rosenbloom, Augustus Abraham.....	Fulton, N. Y.
Rosenthal, Isidor, Ph.G.....	New York City
Rosner, David.....	New York City
Ross, Cecil Metcalfe.....	Hackensack, N. J.
Roth, Herman.....	New York City
Ruch, Valentine, Jr.....	Englewood, N. J.
Saniter, Ernest Herman.....	Roseland, N. J.
Scadron, Samuel Jerome.....	New York City
Schaefer, Louis.....	Brooklyn, N. Y.
Schlesinger, Helen.....	Brookline, Mass.
Schoenfeld, Morris.....	New York City
Schreiber, Henry Jacob.....	New York City
Schwartzman, Samuel.....	New York City
Sears, Keith.....	Searsburg, N. Y.
Seymour, Nan Gilbert, A.B.....	New York City
Shattuck, Hobart Parker.....	Brooklyn, N. Y.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Sheitlis, Benjamin	New York City
Sheitlis, David	New York City
Skernewitch, Abraham Marcus	New York City
Slavit, Joseph	Brooklyn, N. Y.
Slutsky, Max	New York City
Smith, Jennie Beck	Mauch Chunk, Pa.
Squires, Charles Anthony, A.B.	New York City
Stanley, Grant, B.S.	Meriden, Conn.
Stevenson, Willis Mack	S. W. Oswego, N. Y.
Stiefel, Isaac	New York City
Stockman, Frank	New York City
Stone, Charles Lucius	Troy, N. Y.
Strachstein, Abraham	New York City
Streep, Isaac	New York City
Sullivan, Timothy Daniel	Pittsfield, Mass.
Sweet, Elizabeth	Albany, N. Y.
Thorne, Victor Corse, LL.B., Ph.B.	New York City
Thornton, Mary Frances Deraismes	New York City
Tompkins, George Nelson	Sing Sing, N. Y.
Unger, Arthur Sidney	New York City
Van Pelt, Harvey Loren	Ithaca, N. Y.
Vogt, Walter Eugene	Brooklyn, N. Y.
von Sholly, Anna Irene, A.B.	Flushing, N. Y.
Vose, Roy Mandeville	Ithaca, N. Y.
Wagner, Otto	New York City
Waldman, David	New York City
Walker, William Henry, Jr.	New York City
Warner, William Henry Alonzo	Newark, N. J.
Waterman, Paul Harrison, A.B.	Westfield, Mass.
Weibezahl, Christopher	New York City
Weighart, Benjamin	Buffalo, N. Y.
Weiss, Julius, B.S.	New York City
Weller, Aaron	New York City
Wilson, McLeod Canfield	New York City

CORNELL UNIVERSITY MEDICAL COLLEGE.

Wilson, Thomas Gilmour	Jersey City, N. J.
Wilson, Willetts, Ph.G.....	Ithaca, N. Y.
Wing, Persons Walton.....	New York City
Woelfle, Henry Ewald.....	Roseland, N. J.
Wohl, Albert Arthur.....	New York City
Wolff, Harold Alfred.....	Brooklyn, N. Y.
Worrall, Henry Rufus Lankford, M.D.....	New York City
Wyatt, Bernard Langdon	Tilton, N. H.
Zeiner, Eugene Jerome, Ph.G.....	New York City
Ziporkes, Joseph.....	New York City
Ziporkes, William Jerome.....	New York City
Zipser, Benjamin.....	New York City
Zucker, Morris, Ph.G.....	New York City

MATRICULANTS AT ITHACA.

Armstrong, Arthur Soper.....	Rome, N. Y.
Atwater, Ralph Willis.....	Atwaters, N. Y.
Bailey, Harold Capron.....	Buffalo, N. Y.
Banks, Percy Edward.....	Cahoonzie, N. Y.
Barlow, Hiram Woods.....	Pasadena, Cal.
Beckwith, Mary Winifred.....	Ithaca, N. Y.
Berry, Edgar Fanning.....	Holyoke, Mass.
Best, Herbert William.....	Middleburg, N. Y.
Blacker, Edward James.....	Manistee, Mich.
Bliss, Theodore.....	Troy, N. Y.
Boeheim, Frederick George.....	Lyons, N. Y.
Bourne, Abigail Ann.....	Spencerport, N. Y.
Boxmeyer, Charles Herbert, A.B.....	Holden, Mo.
Broddie, Ralph Earle.....	Bergen, N. Y.
Brown, Ralph Minthorne.....	Ithaca, N. Y.
Brown, Richard Edwin.....	Montour Falls, N. Y.
Buckley, Daniel Martin.....	Milbrook, N. Y.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Bugbee, Alice Gates.....	Gloversville, N. Y.
Bullard, Marguerite Jane.....	Providence, R. I.
Caldwell, Isabell.....	Brooklyn, N. Y.
Carter, Helen Louise.....	Newark, N. J.
Chapin, Charles Willard.....	Georgetown, N. Y.
Claypole, Edith Jane, Ph.B., M.S.....	Akron, Ohio
Cleghorn, Guy Forsyth.....	Green Island, N. Y.
Coady, Thomas J. Francis, A.B.....	Brooklyn, N. Y.
Cohen, Rose, M.E., B.E.....	New York City
Cole, Thomas Folwell.....	Ovid, N. Y.
Cook, Leland Howard Dudley.....	Newfield, N. Y.
Coryell, Clarence Catlin.....	Ithaca, N. Y.
Cottis, George Wilbert.....	Bergen, N. Y.
Cuddeback, Edgar Gorden.....	Port Jervis, N. Y.
Cuniffe, Edward Rutherford.....	Port Jervis, N. Y.
Demarest, Ruth.....	Nyack, N. Y.
Dennis, Nina A.....	Binghamton, N. Y.
Dirocco, Joseph.....	New York City
Donk, Rose Rudolph.....	Newark, N. Y.
Doughty, Phebe Van Vlack, A.B., Ph.B.....	Matteawan, N. Y.
Ebberts, Harry Henry.....	Buffalo, N. Y.
Eno, Harry.....	Belgium, N. Y.
Fairbairn, John Fitzgerald.....	Buffalo, N. Y.
Ferry, Perry Lawson.....	Preble, Ind.
Fish, Emmet Grant.....	Mecklenburg, N. Y.
Fitzgerald, Thomas Edmund.....	Cortland, N. Y.
French, Sanford Williams.....	Flatbush, N. Y.
Gifford, Herbert Clyde.....	Oriskany, N. Y.
Gignoux, Herbert Clyde, B.S.....	Albany, N. Y.
Gilfillan, Elizabeth Riddle.....	Washington, D. C.
Glenn, Edward Atlee.....	Berwick, Pa.
Goehle, Otto Louis.....	Buffalo, N. Y.
Gould, Clark Summer.....	Walton, N. Y.
Grant, Joseph Roa.....	Groton, N. Y.

Hall, John Meade.....	Norwich, N. Y.
Hansen, Anthony Hans.....	Norwich, N. Y.
Harris, George Howard.....	Caldwell, N. J.
Hastings, Gertrude Wentworth.....	Meadville, Pa.
Hayden, Paul Lester.....	Sayre, Pa.
Heidenheim, Zillah.....	Brooklyn, N. Y.
Higgins, Reuben Paul.....	Cortland, N. Y.
Hopper, Guy Sweet.....	Ithaca, N. Y.
Hoover, Walter Wells.....	Wellsville, Pa.
Jones, Watkins Fred.....	Rushville, N. Y.
Judd, Harold Booth.....	Bethel, Conn.
Kennedy, George DeHart.....	Buffalo, N. Y.
Keyes, Jay Gould.....	Gowanda, N. Y.
Kieb, Raymond Francis.....	Lowville, N. Y.
Kingsbury, Benjamin Freeman, A.B., M.S., Ph.D....	Defiance, Ohio
Kyle, Thompson Gilbraith.....	Ithaca, N. Y.
Laird, Ida Marie.....	Auburn, N. Y.
Loeber, Edith.....	New Orleans, La.
McMullen, Horace Dwight.....	Picton, Ont., Can.
Mack, Mary Latimer, A.B., A.M.....	Pittsburg, Kan.
Major, Carl William.....	Ithaca, N. Y.
Martin, Arthur Harold.....	Cooperstown, N. Y.
Mathewson, Edward Simon.....	Cortland, N. Y.
Mitchell, Evelyn Groesbeeck.....	East Orange, N. J.
Mohan, John Francis.....	Alleghany, Pa.
Mount, Louis Burgh.....	Troy, N. Y.
Neville, John Henry.....	Chicago, Ill.
Nelson, Staley Lyman.....	Hinsdale, N. Y.
Oday, Sylvester Francis.....	Binghamton, N. Y.
Ormsby, Marguerite Louise.....	Norwich, N. Y.
Parmenter, Louie Allen.....	Corinth, N. Y.
Patterson, Robert Rhooode.....	Geneseo, N. Y.
Payne, Charles Rockwell.....	Wadhams Mills, N. Y.
Peck, Ellen Newell.....	Ithaca, N. Y.

CORNELL UNIVERSITY MEDICAL COLLEGE.

Phillips, William Campbell.....	Catskill, N. Y.
Pierson, John Corbin.....	New York City
Quackenbush, William Vincent.....	Little Falls, N. Y.
Quigley, James Knight.....	Trumansburg, N. Y.
Reu, Leonard	Buffalo, N. Y.
Robinson, John Alden.....	Oswego, N. Y.
Ross, Mary Jane, A.B., A.M.....	Waverley, N. Y.
Sanford, Merton Jarvis.....	Center Lisle, N. Y.
Santee, Harold Elmore.....	Hornellsville, N. Y.
Scharfman, Pauline.....	Brooklyn, N. Y.
Seaman, Benjamin Franklin.....	Matteawan, N. Y.
Searing, Benjamin Haff.....	Brooklyn, N. Y.
Smith, Percy Allen Winans.....	Medina, N. Y.
Stanley, Lillian Armstrong.....	Lenox, Mass.
Steiner, Sidney.....	Brooklyn, N. Y.
Storck, Edward Hugo.....	Buffalo, N. Y.
Thompson, Carrie Wilbur.....	Highland Falls, N. Y.
Todd, Leona Estella.....	Rochester, N. Y.
Turnbull, Raymond Alexander.....	Elmira, N. Y.
Wanzer, Esther Mae.....	Ithaca, N. Y.
Weber, Edward William.....	Mt. Vernon, N. Y.
Webster, Charles Henry.....	West Laurens, N. Y.
White, Zella Mildred.....	Bradford, Pa.
Windecker, Frederick C.....	Little Falls, N. Y.
Wright, Floyd Robins, A.B.....	Ithaca, N. Y.

COLLEGE BUILDING.*

The Medical School and a Dispensary, each with a main entrance on First Avenue, are arranged as follows :

The basement is commodious, well lighted and ventilated, and contains the engines, boilers, dynamos, and ventilating machinery ; the refrigerating and cold-storage plant, with the injecting and freezing rooms ; a large room with lockers, and another for bicycles. Storerooms, including one for drugs ; four rooms, including a small theatre and a workshop, for orthopædic surgery ; toilet rooms and lavatories, and several rooms for the janitor of the building, are also found here. On the basement level, but outside of the building, is a large incinerating furnace for consuming all the refuse from the College.

The principal entrances to the building are on the *First Floor*. They open from First Avenue into vestibules, one leading to the main hall of the School, the other to the general waiting-room of the Dispensary, between which the large Amphitheatre is situated.

The rooms of the Children's Department, which include an isolating room and a small theatre, are placed between the entrances, while around the waiting-room of the Dispensary are located the office for distributing patients, the Pharmacy, rooms for the departments of Surgery and Medicine, waiting- and dressing-rooms, lavatories, and rooms for the Roentgen-ray and sterilizing apparatus.

Grouped around the main hall of the School on this floor are the Council and Faculty room, the office of the Dean, the Secretary, and the Clerk, a reading and recitation rooms.

Upon the *Second Floor*, the same general arrangement prevails. On the side of the Dispensary there is a large waiting-room, surrounded by rooms assigned respectively to the departments of Genito-Urinary diseases, diseases of the Nervous System, of the Skin and of the Ear, while covering the space at the middle front of the building are the rooms belonging to the departments of the Eye and the Throat, with a series of twenty dark stalls for the simultaneous examination of as many patients by as many students. Small waiting- and dressing-rooms and lavatories for the convenience of the patients are also found on this floor. The upper part of the large Amphitheatre, extending from the floor below, occupies the centre of the rear half of this floor. The remainder of the floor is given up to the School. Here is found a hall, around which are

* See frontispiece and floor plans.

CORNELL UNIVERSITY MEDICAL COLLEGE.

grouped recitation rooms and laboratories for Clinical Pathology. These laboratories have convenient access from the Dispensary, permitting ready coöperation in the work carried on there.

The *Third Floor* of the building is given up to teaching space, excepting an area upon the "Dispensary side" of the building, which is assigned to the departments of Gynæcology and Obstetrics. This comprises a small theatre, examining, waiting, dressing, and toilet room, manikin, and two recitation rooms. The remainder of this floor is occupied by two amphitheatres (each having a seating capacity of about 175 students); one for Anatomy, Physiology, and Pathology, the other for Chemistry; attached to each are Preparation and Research rooms. The Chemical Laboratories also occupy this floor, including the main Laboratory, the Laboratory for Physiological Chemistry, rooms for apparatus, etc., and a Library of Chemistry.

There is the usual hall and corridor space with toilet rooms and lavatories.

The *Fourth Floor* is occupied by the upper part of the two Amphitheatres which project from the floor below. The Department of Pathology and Bacteriology occupies the remainder of this floor. Ample facilities are provided, not only for the class work and demonstrations, but for special and advanced courses and investigations. A Library of Pathology and Bacteriology is situated here.

The *Fifth Floor* is devoted to the Department of Practical Anatomy. The main dissecting room occupies a space of 160 by 55 feet; there is also a large room, 40 by 50 feet, which is set apart for advanced undergraduates and post-graduates. These rooms can be cooled by the refrigerating plant in such a manner as to permit the pursuit of Practical Anatomy with as much comfort in summer as in winter.

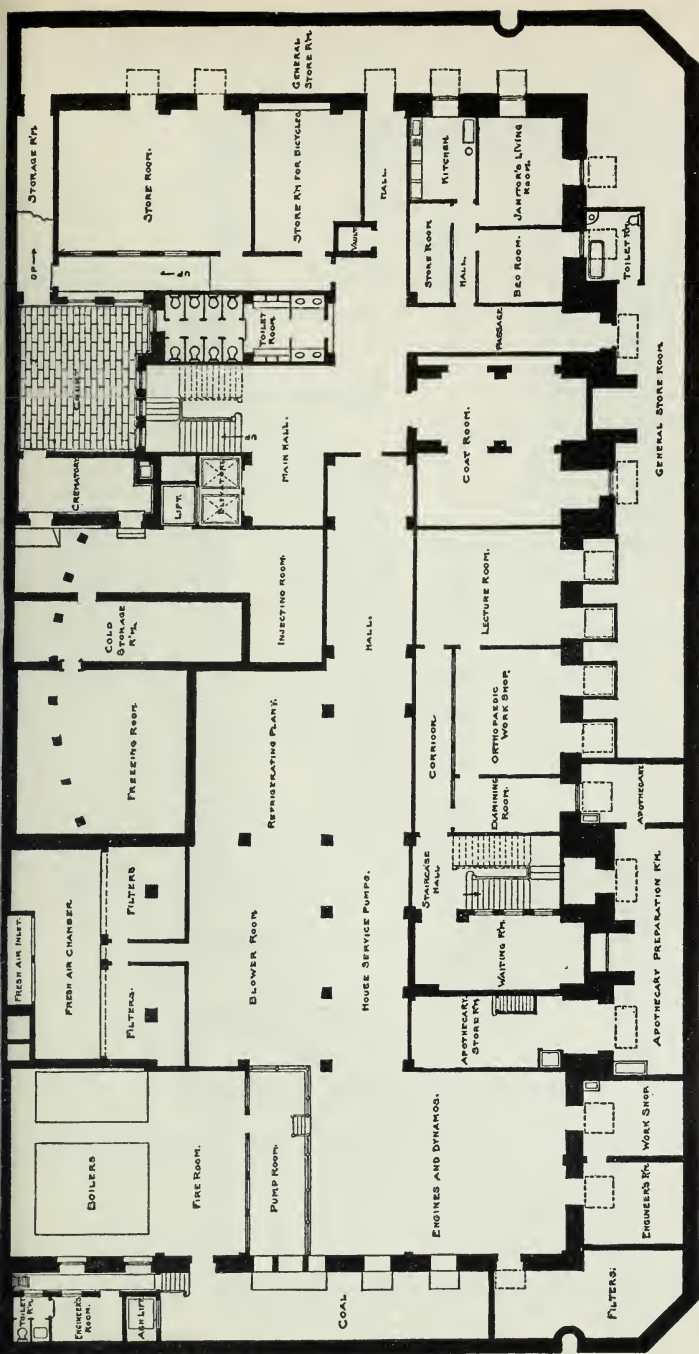
This floor presents such facilities as lockers for 300 students, a small Demonstration Theatre with prosecuting and cold-storage room attached, private Dissecting rooms, a Bone room, a Library, a Reading and Study room, and a commodious room for instruction in Operative Surgery.

The Department of Photography, the animal house, and a room for the preparation of bones are placed in a half-story at the top and rear of the building.

There are two main staircases, one for each department of the building, passenger elevators, and a freight lift.

The building itself is fireproof throughout, being constructed of steel, stone, brick, marble, and tile. The glazed brick and glazed tile walls, tile floors, and enamel painted cast-iron trim to the doors and interior of the windows ensure cleanliness. Special attention has also been paid to the problems of refrigeration, lighting, heating, and ventilation, so that every part of the structure can be easily kept at all times in an agreeable and sanitary condition.

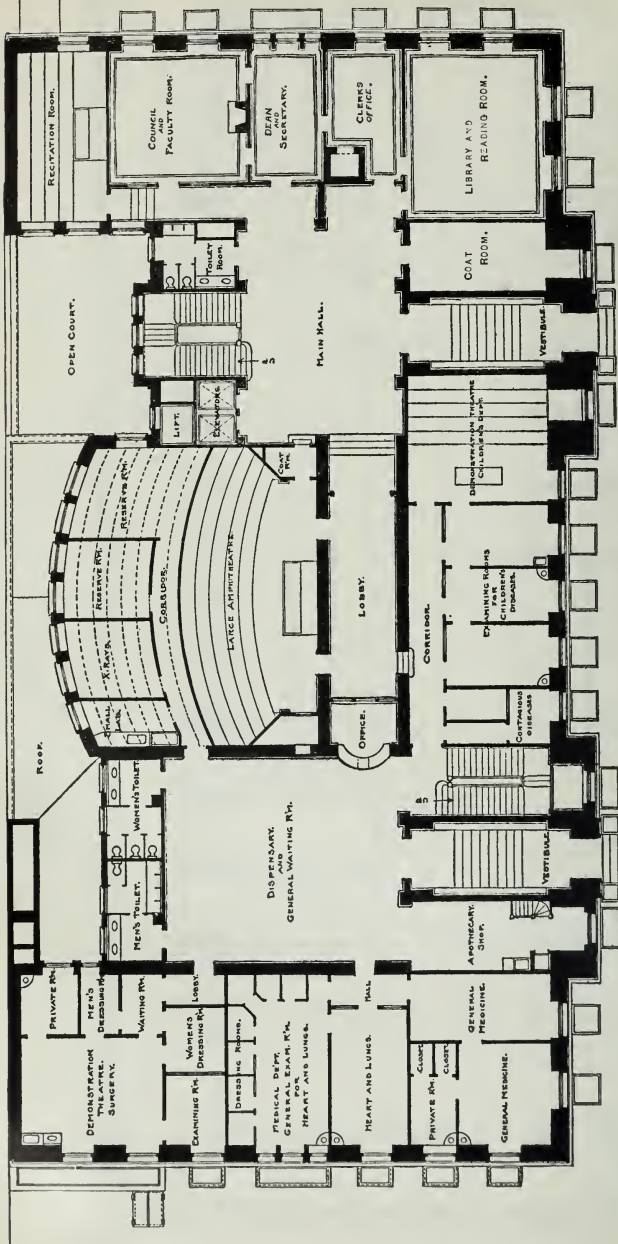
In conjunction with this building the Loomis Laboratory will be employed in the manner set forth below.



CORNELL UNIVERSITY MEDICAL COLLEGE
PLAN OF BASEMENT.

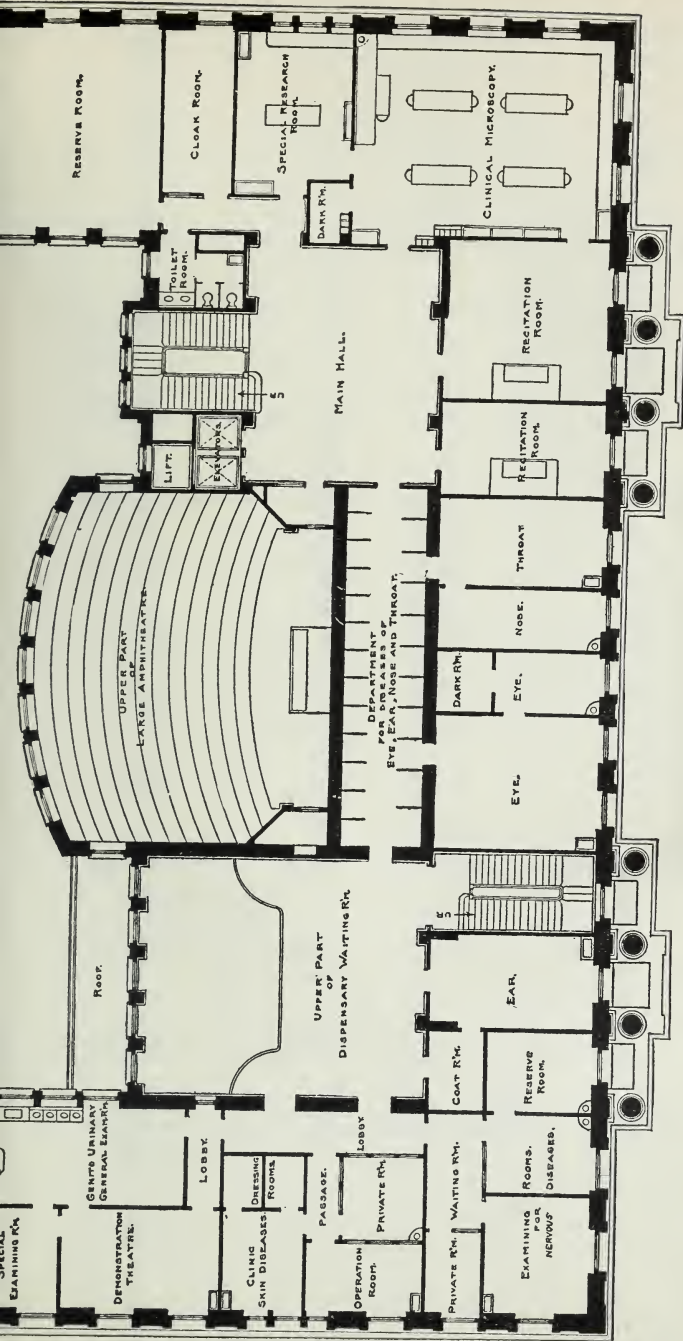
SCALE 0 5 10 20 25 FT.

MEKIM, MEAD AND WHITE, ARCHITECTS.

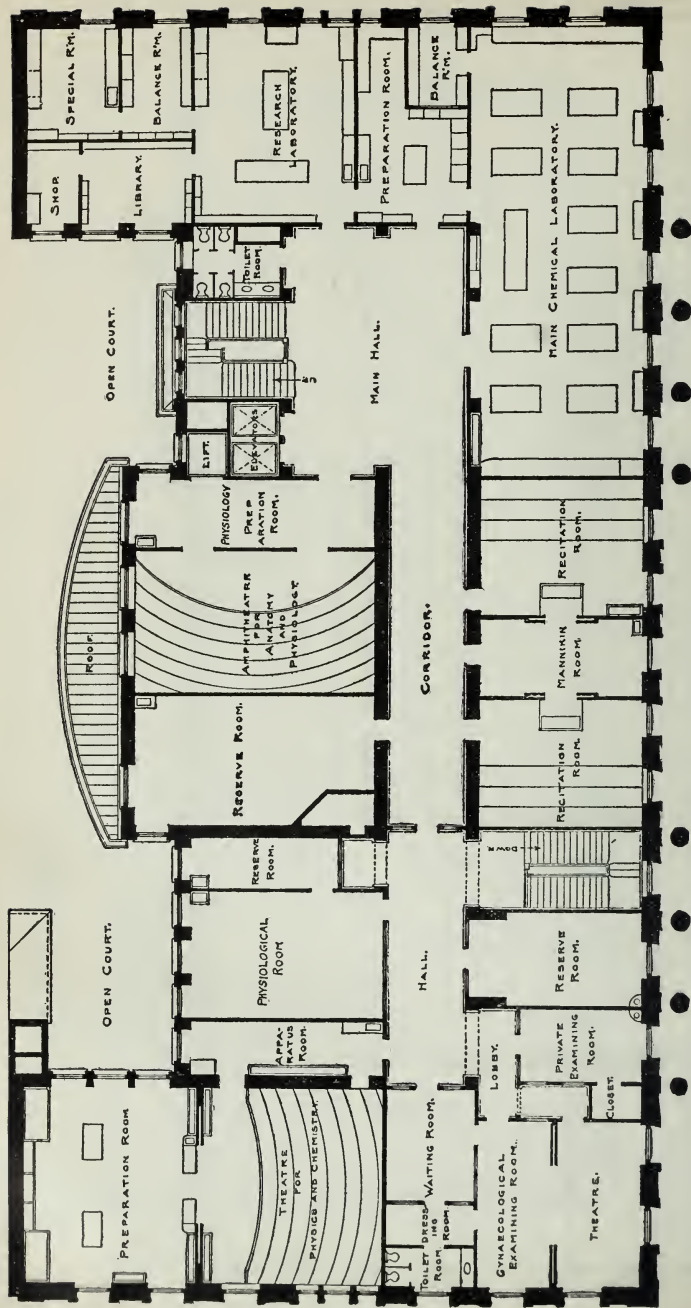


FIRST AVENUE.

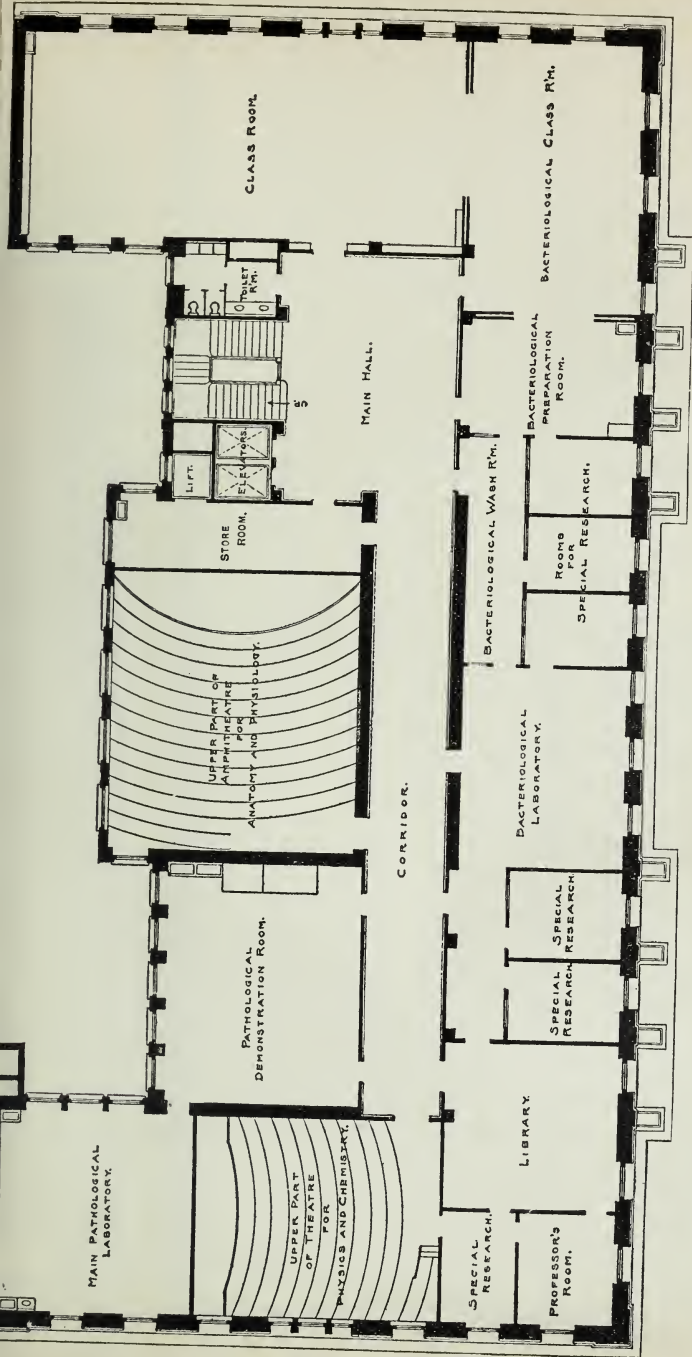
PLAN OF FIRST FLOOR



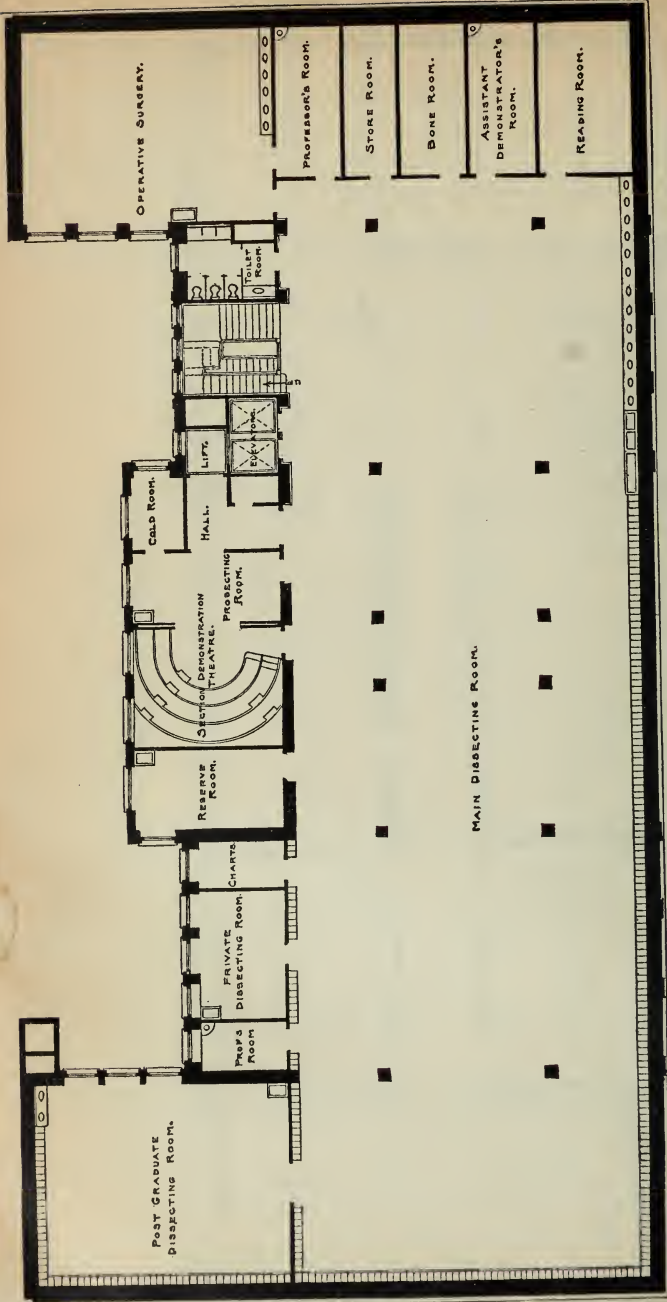
PLAN OF SECOND FLOOR.



PLAN OF THIRD FLOOR.



PLAN OF FOURTH FLOOR.



PLAN OF FIFTH FLOOR.

CORNELL UNIVERSITY

COMPRISES THE FOLLOWING DEPARTMENTS

The GRADUATE DEPARTMENT (Degrees A. M., Ph. D., etc.)

The ACADEMIC DEPARTMENT, OR DEPARTMENT OF ARTS AND SCIENCES (Degree A. B.)

The COLLEGE OF LAW (Degree LL. B.)

The MEDICAL COLLEGE* (Degree M. D.)

The NEW YORK STATE VETERINARY COLLEGE (Degree D. V. M.)

The COLLEGE OF AGRICULTURE (Degree B. S. A.)

The NEW YORK STATE COLLEGE OF FORESTRY (Degree B. S. F.)

The COLLEGE OF ARCHITECTURE (Degree B. Arch.)

The COLLEGE OF CIVIL ENGINEERING (Degree C. E.)

The SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND MECHANICAL ARTS (Degree M. E.)

For copies of the University Register and for additional information, apply to

REGISTRAR, CORNELL UNIVERSITY,

Ithaca, N. Y.

*The full four-year course of the CORNELL UNIVERSITY MEDICAL COLLEGE is given in the City of New York, but the first half of it—the work of the first and second years—is also given at Ithaca, where it may be taken by men students and where alone it can be taken by women students (for whom a home is provided in the Sage College for Women). Both men and women students must take the last two years of the course in New York City. Special announcements of the Medical College and information of every kind regarding it will be furnished on application to

SECRETARY, Cornell University Medical College,

First Avenue and 28th Street, New York City.

UNIVERSITY OF ILLINOIS-URBANA



3 0112 111497209